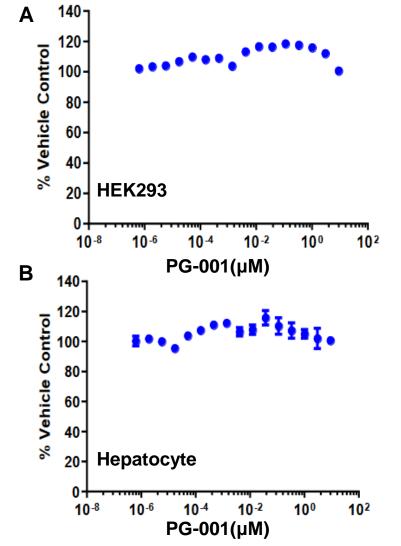


Conc



Cat#	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	Cat #	Assay Name	Batch*	Spec.	Rep.
^			-	-			241000	Imidazoline I2, Central	460844	rat	2
Compo	und: PD-AAR306-AD-2, PT #: 1242163	,					243530	Interleukin IL-1 R1	460860	hum	2
200510	Adenosine A ₁	460913	hum	2	3 µM	-19	250460	Leukotriene, Cysteinyl CysLT1	460827	hum	2
200610	Adenosine A _{2A}	460914	hum	2	3 µM	-16	251600	Melatonin MT1	460877	hum	2
200720	Adenosine A ₃	461004	hum	2	3 µM	0	252610	Muscarinic M1	460957	hum	2
203110	Adrenergic a1A	460921	hum	2	3 µM	-3	252710	Muscarinic M ₂	460958	hum	2
203210	Adrenergic a1B	460922	hum	2	3 µM	-8	252810	Muscarinic Ma	460959	hum	2
203400	Adrenergic and	460887	hum	2	3 µM	-3	257010	Neuropeptide Y Y1	460868	hum	2
203630	Adrenergic a24	460820	hum	2	3 µM	-22	257110	Neuropeptide Y Y ₂	460867	hum	2
204010	Adrenergic β1	460923	hum	2	3 μM		258700	Nicotinic Acetylcholine a1, Bungarotoxin	460993	hum	2
204010	Adrenergic β ₂	460935	hum	2	3 µM		258730	Nicotinic Acetylcholine a3β4	460932	hum	2
204110	Androgen (Testosterone)	460873		2	3 μM	-	260130	Opiate δ ₁ (OP1, DOP)	460828	hum	2
	Bradykinin B1		hum				260210	Opiate κ (OP2, KOP) Opiate μ (OP3, MOP)	460829	hum	2
212520		460935	hum	2	3 µM		260410 264500	Phorbol Ester	460830 460870	hum mouse	2 2
212620	Bradykinin B ₂	460890	hum	2	3 µM	-	299037	Platelet Activating Factor (PAF)	461141	hum	2
214510	Calcium Channel L-Type, Benzothiazepine	460864	rat	2	3 µM	0	265600	Potassium Channel [KATP]	460979	ham	2
214600	Calcium Channel L-Type, Dihydropyridine	460924	rat	2	3 µM	9	265900	Potassium Channel hERG	460933	hum	2
216000	Calcium Channel N-Type	460889	rat	2	3 µM	-3	268420	Prostanoid EP4	460848	hum	2
217050	Cannabinoid CB1	460929	hum	2	3 µM	-7	299036	Purinergic P2X	461229	rat	2
219500	Dopamine D ₁	460919	hum	2	3 µM	4	268820	Purinergic P2Y, Non-Selective	460874	rat	2
219700	Dopamine D _{2S}	460920	hum	2	3 µM	3	270000	Rolipram	460937	rat	2
219800	Dopamine D ₃	460919	hum	2	3 µM	-5	271110	Serotonin (5-Hydroxytryptamine) 5-HT1A	460891	hum	2
220000	Dopamine D _{4.4}	461068	hum	2	3 µM	15	271700	Serotonin (5-Hydroxytryptamine) 5-HT28	460927	hum	2
224010	Endothelin ETA	460962	hum	2	3 µM	-5	271910	Serotonin (5-Hydroxytryptamine) 5-HT ₃	460859	hum	2
224110	Endothelin ETB	460963	hum	2	3 µM	1	299034	Sigma o1	460855	hum	2
225510	Epidermal Growth Factor (EGF)	460858	hum	2	3 µM	2	279510	Sodium Channel, Site 2	460934	rat	2
226010	Estrogen ERa	460896	hum	2	3 μΜ		255520 285900	Tachykinin NK1 Thyroid Hormone	461008	hum	2
226600	GABAA, Flunitrazepam, Central	460841	rat	2	3 µM		285900	Transporter, Dopamine (DAT)	461037 460857	rat hum	2
226500	GABAA, Muscimol, Central	460840	rat	2	3 μM	-	226400	Transporter, GABA	460915	rat	2
228610	GABA _{B1A}	460972	hum	2	3 µM	-	204410	Transporter, Norepinephrine (NET)	460831	hum	2
220010	Glucocorticoid			2	3μM	-	274030	Transporter, Serotonin (5-	460850	hum	2
	Glutamate, Kainate	460883	hum	_				Hydroxytryptamine) (SERT)			
232710		460824	rat	2	3 μM						
232810	Glutamate, NMDA, Agonism	460916	rat	2	3 µM						
232910	Glutamate, NMDA, Glycine	460917	rat	2	3 µM						
233000	Glutamate, NMDA, Phencyclidine	460825	rat	2	3 µM						
239610	Histamine H ₁	460918	hum	2	3 µM	4					
239710	Histamine H ₂	460939	hum	2	3 µM						
239820	Histamine H ₃	461069	hum	2	3 µM	-3					

Fig 1 Cytotoxicity evaluation of PG-001 using (A) HEK293 and (B) Hepatocyte cells. No significant cytotoxicity was observed at the concentration less than 9 μ M of PG-001.

Fig 2 Off-Target panel assay of PG-001 against 68 targets conducted by Eurofins Panlabs. No significant (>50% inhibition) off-target effect was observed at a concentration of 3 μ M of PG-001.



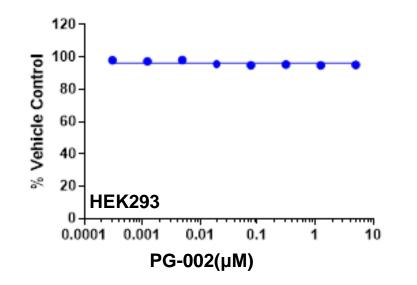


Fig 3 Cytotoxicity evaluation of PG-002 using HEK293. No significant cytotoxicity was observed at the concentration less than 5 μ M of PG-002.

Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.
239820	Histamine H ₃	469330	hum	2	5 µM	1 25	Compo	ound: PD-AAU043-AA-1, PT #: 1246570)				
241000	Imidazoline I2, Central	469404	rat	2	5 µħ	1 22	200510	Adenosine A1	469387	hum	2	5 µM	-8
243530	Interleukin IL-1 R1	469478	hum	2	5 µN	1 .5	200610	Adenosine A ₂₄	469387	hum	2	5 µM	
250460	Leukotriene, Cysteinyl CysLT1	469344	hum	2	5 µN	1 -2	200720	Adenosine A ₃	469327	hum	2	5 µM	0
251600	Melatonin MT1	469399	hum	2	5 µM	1 8	203110	Adrenergic ata	469388	hum	2	5 µM	0
252610	Muscarinic M1	469328	hum	2	5 µM	1 2	203210	Adrenergic ate	469388	hum	2	5 µM	3
252710	Muscarinic M2	469328	hum	2	5 µN	1 -1	203400	Adrenergic ato	469391	hum	2	5 µM	13
252810	Muscarinic Ma	469329	hum	2	5 µħ	-10	203630	Adrenergic aza	469385	hum	2	5 µM	-8
257010	Neuropeptide Y Y1	469482	hum	2	5 µM	1 7	204010	Adrenergic B1	469378	hum	2	5 µM	-6
257110	Neuropeptide Y Y ₂	469483	hum	2	5 µM	1 4	204110	Adrenergic B2	469389	hum	2	5 µM	2
258700	Nicotinic Acetylcholine α1, Bungarotoxin	469400	hum	2	5 µM	1 -8	206000	Androgen (Testosterone)	469356	hum	2	5 µM	-4
258730	Nicotinic Acetylcholine a3β4	469401	hum	2	5 µM	-23	212520	Bradykinin Bt	469342	hum	2	5 µM	8
260130	Opiate δ1 (OP1, DOP)	469849	hum	2	5 µM	1 3	214510	Calcium Channel L-Type, Benzothiazepine	469390	rat	2	5 µM	5
260210	Opiate ĸ (OP2, KOP)	469352	hum	2	5 µM	1 10	214600	Calcium Channel L-Type, Dihydropyridine	469341	rat	2	5 µM	9
260410	Opiate µ (OP3, MOP)	469352	hum	2	5 µh	1 -23	216000	Calcium Channel N-Type	469392	rat	2	5 µM	0
264500	Phorbol Ester	469396	mouse	2	5 µN	1 0	217050	Cannabinoid CB1	469440	hum	2	5 µM	-2
299037	Platelet Activating Factor (PAF)	469394	hum	2	5 µM	1 2	219500	Dopamine D1	469383	hum	2	5 µM	8
265600	Potassium Channel [KATP]	469452	ham	2	5 µN	1 8	219700	Dopamine D ₂₅	469543	hum	2	5 µM	0
265900	Potassium Channel hERG	469453	hum	2	5 µN	1 21	219800	Dopamine D ₂	469380	hum	2	5 µM	4
268420	Prostanoid EP4	469386	hum	2	5 µM	1 0	220000	Dopamine D4.4	469543	hum	2	5 µM	-4
299036	Purinergic P2X	469403	rat	2	5 µM	1 12	224010	Endothelin ET _A	469464	hum	2	5 µM	-3
268820	Purinergic P2Y, Non-Selective	469331	rat	2	5 µM		224110	Endothelin ETs	469465	hum	2	5 µM	-6
270000	Rolipram	469358	rat	2	5 µN		225510	Epidermal Growth Factor (EGF)	469332	hum	2	5 µM	0
271110	Serotonin (5-Hydroxytryptamine) 5-HT A	469353	hum	2	5 µM		226010	Estrogen ERa	469397	hum	2	5 µM	
271700	Serotonin (5-Hydroxytryptamine) 5-HT28	469354	hum	2	5 µM		226600	GABAA, Flunitrazepam, Central	469342	rat	2	5 µM	
271910	Serotonin (5-Hydroxytryptamine) 5-HT3	469353	hum	2	5 µħ		226500	GABAA, Muscimol, Central	469398	rat	2	5 µM	
299034	Sigma o1	469383	hum	2	5 µN		228610	GABABIA	469343	hum	2	5 µM	
279510	Sodium Channel, Site 2	469402	rat	2	5 µM		232030	Glucocorticoid	469410	hum	2	5 µM	
255520	Tachykinin NK1	469351	hum	2	5 µM	10.00	232710	Glutamate, Kainate	469393	rat	2	5 µM	
285900	Thyroid Hormone	469359	rat	2	5 µM		232810	Glutamate, NMDA, Agonism	469355	rat	2	5 µM	
220320	Transporter, Dopamine (DAT)	469376	hum	2	5 µM		232910	Glutamate, NMDA, Glycine	469355	rat	2	5 µM	
226400	Transporter, GABA	469348	rat	2	5 µN		233000	Glutamate, NMDA, Phencyclidine	469349	rat	2	5 µM	
204410	Transporter, Norepinephrine (NET)	469375	hum	2	5 µM		239610	Histamine Hi	469395	hum	2	5 µM	
274030	Transporter, Serotonin (5-	469396	hum	2	5 µN		239710	Histamine H ₂	469378	hum	2	5 µN	-9

Note: Items meeting criteria for significance (≥50% stimulation or inhibition) are highlighted.

* Batch: Represents compounds tested concurrently in the same assay(s) ham=Hamster: hum=Human Batch: Represents compounds tested concurrently in the same assay(s). ham=Hamster; hum=Human

Fig 4 Off-Target panel assay of PG-002 against 68 targets conducted by Eurofins Panlabs. No significant (>50% inhibition) off-target effect was observed at a concentration of 5 μ M of PG-002.



Experimental Results

Experimental Results

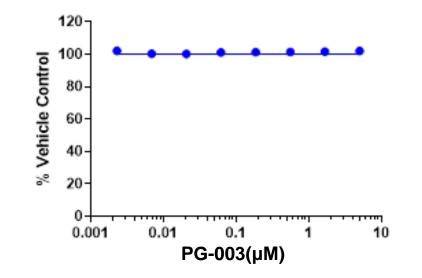


Fig 5 Cytotoxicity evaluation of PG-003 using HEK293. No significant cytotoxicity was observed at the concentration less than 5 μ M of PG-003.

Compound: PD-ABE942-AA-1, PT #: 1258989 Unit Material PA
Score Admosine As. 49453 hum 2 5 µM 9 Monosine As 49453 hum 2 5 µM 0 241000 Indexabine F, Central 494527 hum 2 5 µM 0 Monosine As 494672 hum 2 5 µM 0 23303 Intenduktin L1 R1 494672 hum 2 5 µM 0 Monosine Gu 484761 hum 2 5 µM 0 25000 Admosine V, Centeral V, Centeral V, Muscarinic M 494677 hum 2 5 µM 0 20000 Admeregic Gu 484517 hum 2 5 µM 0 25710 Nucarinic Muscarinic M 494677 hum 2 5 µM 0 20000 Admosine Gu 48457 hum 2 5 µM 0 25710 Nucarinic Monosine Actylcholine 1, Burgarotoki 494632 hum 2 5 µM 0 200000 Admosine Face 48457 hum 2 5 µM 0
BOD720Admonitor As49452hum25 µM125 µM125 µM125 µM.25 µM25 µM.25 µM.<
Nameragic 0 a. 48468 hum 2 full -2 25400 Aderengic 0 a. 48475 hum 2 full -2 00210 Aderengic 0 a. 48476 hum 2 full -3 00200 Aderengic 0 a. 48476 hum 2 full -7 00000 Aderengic 0 a. 48467 hum 2 full -7 00000 Aderengic 0 a. 48467 hum 2 full -7 00000 Aderengic 0 a. 48451 hum 2 full -7 00000 Adrenegic 0 a. 48451 hum 2 full -7 00000 Adrenegic 0 a. 48457 hum 2 full -7 00000 Adrenegic 0 a. 48457 hum 2 full -7 00000 Adrenegic 0 a. 48457 hum 2 full -7 00000 Adrenegic 0 a. 48457 hum 2 full -7 0110 Adrenegic 0 a. 48457 hum<
Base State Base State Base State State<
Advance Advance Advance Spin A 202080 Advancergic cas 49476 hum 2 Spin -9 252010 Muscarinic Ms. 494877 hum 2 Spin -5 202080 Advenergic cas. 494515 hum 2 Spin 3 25701 Muscarinic Ms. 494874 hum 2 Spin -5 202000 Advenergic fa 49451 hum 2 Spin 5 25701 Nucropeptide Y1 49457 hum 2 Spin -6 212000 Advinergic fa 49478 hum 2 Spin -2
202030 Addresspic Gu 48459 Num 2 5 µM 9 2020401 Addresspic Gu 48451 Num 2 5 µM 1 252210 Muscarinic Ms 48467 Num 2 5 µM 3 202001 Addresspic Gu 48451 Num 2 5 µM 3 252710 Nuscarinic Ms 48467 Num 2 5 µM 3 202000 Addresspic Gu 48451 Num 2 5 µM 3 252710 Nuscarinic Ms 48468 Num 2 5 µM 4 202000 Addresspic Gu Num 48477 Num 2 5 µM 1 202105 Disklinin B: 48487 Num 2 5 µM 6 25570 Nicolinic Accelytoline a18 Burgarotoin 48468 Num 2 5 µM 4 214206 Calcium Channel L'ype, Dhydrographic 48477 num 2 5 µM 6 214000 Calcium Channel L'ype, Dhydrographic 48473 num 2 5 µM 6 214100 Calcium
Andrage Bind C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C C F M C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F
Alternergic β_2 Mum2 β_{MM} 320000Androgen (Testoterone)48473hum2 β_{MM} 5257110Neuropeptide Yr ₂ 48453hum2 β_{MM} 4212525Bradykinin B:48483hum2 β_{MM} -225873Nicolnic Acetylcholine a3 $\beta 4$ 48408hum2 β_{MM} -121450Calcium Channel L-Type, Dihydroprynin48475nt2 β_{MM} 6200130Opiate (P1, COP)48483hum2 β_{MM} -721450Calcium Channel L-Type, Dihydroprynin48477nt2 β_{MM} 6200130Opiate (P1, COP)48483hum2 β_{MM} -721450Calcium Channel L-Type, Dihydroprynin48457hum2 β_{MM} 1620060Potate (P1, COP)48483hum2 β_{MM} -721700Cannabinol CBi48457hum2 β_{MM} 1520060Potate (P3, MOP)48451hum2 β_{MM} -721800Dopamine D ₂ 48451hum2 β_{MM} 6200500Potate (P4, CP3, MOP)48452hum2 β_{MM} -721900Dopamine D ₂ 48451hum2 β_{MM} 6200500Potate (P4, CP3, MOP)48452hum2 β_{MM} -7
Control Name C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C F M C C F M C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C C F M C F M C C F M C <th< td=""></th<>
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Labola Obscher Opplate k (OP2, KOP) 48433 hum 2 5 μ M 3 Labola Obscher Opplate k (OP2, KOP) 48433 hum 2 5 μ M 3 Labola Calcium Channel L-Type, Dihydopydine 48473 rat 2 5 μ M -1 200410 Opiale k (OP2, KOP) 48483 hum 2 5 μ M 3 Labola Calcium Channel L-Type, Dihydopydine 48473 rat 2 5 μ M -1 200410 Opiale k (OP2, KOP) 48483 hum 2 5 μ M 6 Calcium Channel L-Type, Dihydopydine 48457 hum 2 5 μ M 4 20000 Opinite Dx 48453 hum 2 5 μ M 4 Calcium Channel D-Type 484516 hum 2 5 μ M 4 200500 Potassium Channel EFA 484532 hum 2 5 μ M 5 Calciu D-Damine Dx 484516 hum 2 5 μ M 4 20000 Potassium Channel
214600 Calcium Channel L-Type, Dihydropynidim 48487 rat 2 5 µM 8 260210 Opieke (OP2, KOP) 48483 hum 2 5 µM 7 216000 Calcium Channel L-Type, Dihydropynidim 48475 rat 2 5 µM 7 217000 Calcium Channel L-Type 48475 rat 2 5 µM 7 200410 Opiake µ (OP3, MOP) 484680 nome 2 5 µM 7 217000 Dopamine Dr. 48457 hum 2 5 µM 7 200507 Platelet Achrydning Facht (PAF) 48458 hum 2 5 µM 7 217000 Opamine Dr. 48457 hum 2 5 µM 7 2 5 µM 7 1 2 1 7 1 2 5 µM 7 1 2 1 7 1
216000 Calcium Channel N-Type 48478 rat 2 $5 \ \mu$ M .1 260410 Oplate µ (OPS, MOP) 484682 Num 2 $5 \ \mu$ M .6 217000 Cannabinoid CB1 484537 hum 2 $5 \ \mu$ M .16 264500 Photobl Ester 484510 hum 2 $5 \ \mu$ M .6 217000 Dopamine D_1 484517 hum 2 $5 \ \mu$ M .6 266500 Potassium Channel K-m 48451 hum 2 $5 \ \mu$ M .6 217000 Dopamine D_2 484516 hum 2 $5 \ \mu$ M .6 265000 Potassium Channel K-m 48452 hum 2 $5 \ \mu$ M .6 22000 Dopamine D_2 484516 hum 2 $5 \ \mu$ M .6 265000 Potassium Channel K-m 48452 hum 2 $5 \ \mu$ M .6 22410 Indohelin ETA 484526 hum 2 $5 \ \mu$ M .6 200000 Parimeryic PX, Non-Selective 484686 num 2 $5 \ \mu$ M .6 224110 Indohelin ETA
1100 CommonSect Colin 44453 Inum 2 5 µM 3 21000 Dopamine D1 44457 Inum 2 5 µM 3 210700 Dopamine D2 44457 Inum 2 5 µM 3 210700 Dopamine D3 44457 Inum 2 5 µM 3 26560 Potasium Channel KRvpl 48453 Inum 2 5 µM 3 210800 Dopamine D3 484516 Inum 2 5 µM 6 26560 Potasium Channel KRvpl 48453 Inum 2 5 µM 3 210800 Dopamine D4 484516 Inum 2 5 µM 6 268620 Potasium Channel KRvpl 48453 Inum 2 5 µM 9 224010 Endothelin ET4 484526 Inum 2 5 µM 3 268620 Pointerpic P2X 48469 rat 2 5 µM 9 225010 Eidemand Growth Factor (EGF) 48456 Inum 2 5 µM 3 3 3 3 48469 rat 2
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21970 Dopamine Ds 48451 hum 2 5μ M 3 206000 Polasium Channel KErn/I 48452 hum 2 5μ M 3 21600 Dopamine Ds 48451 hum 2 5μ M 6 205000 Polasium Channel KErn/I 484530 hum 2 5μ M 3 22000 Dopamine Ds 484516 hum 2 5μ M 4 205000 Polasium Channel KErn/I 484530 hum 2 5μ M 3 22010 Endohelin ETa 48452 hum 2 5μ M 3 200000 2000000 Polisau Channel Kern/I 484680 hum 2 5μ M 3 22010 Endohelin ETa 48452 hum 2 5μ M 3 $2000000000000000000000000000000000000$
21900 Dopamine Ds 48456 hum 2 5 µM 6 26600 Potasium Channen HERG 48456 hum 2 5 µM 2 Dopamine Ds 48451 hum 2 5 µM 4 26860 Potasium Channen HERG 48458 hum 2 5 µM 4 22000 Dopamine Ds 48451 hum 2 5 µM 4 26903 Purinergic P2X 48462 nut 2 5 µM 4 22010 Endothelin ETs 48455 hum 2 5 µM 3 20000 Rolesame 48468 nut 2 5 µM 4 22010 Endothelin ETs 48476 hum 2 5 µM 3 20000 Rolesame 48468 nut 2 5 µM 4 22010 Endoren Riskonte 48476 nut 2 5 µM 3 20000 5 µM 4 4 44468 nut 2 5 µM 4 4 4 4 4 4 4 4 4 4 4 4
22000 Dopamine D₄ 48451 hum 2 5 μ/h 4 268420 Protendie EFA 48452 hum 2 5 μ/h 4 22001 Endothelin ETA 48452 hum 2 5 μ/h 4 29803 Purinergic P2X non-selective rat 2 5 μ/h 4 22410 Endothelin ETA 48452 hum 2 5 μ/h 3 20000 Purinergic P2X Non-Selective 48467 rat 2 5 μ/h 4 22610 Eidoremal Growth Factor (EGF) 48469 hum 2 5 μ/h 6 277100 Serotonin (5-Hydroxytypatimic) 5-HT3 48468 hum 2 5 μ/h .1 22600 GABAA, Flunitazepam, Central 48469 nut 2 5 μ/h .2 .1 .2
22400 Endotheline TA 48452 hum 2 5μ M 4 269036 Purimergic P2X 848672 rat 2 5μ M 5μ M 5μ M 2μ M <
22410 Endothelin ETs 48452 hum 2 5μ M 3 268820 Purnergic P2Y, Non-Selective 48468 nt 2 5μ M 9 224510 Endothelin ETs 48476 hum 2 5μ M 6 27000 Roley name 48468 nt 2 5μ M 4 222610 Extore ETs 48476 hum 2 5μ M 6 27110 Serotonin (5-Hydroxytyptanine) 5-HTs 48464 hum 2 5μ M -1 22600 GABAA, Flunitazepam, Central 48459 rat 2 5μ M 6 27110 Serotonin (5-Hydroxytyptanine) 5-HTs 48445 hum 2 5μ M -5 22800 GABAA, flunitazepam, Central 48459 rat 2 5μ M 6 299034 Serotonin (5-Hydroxytyptanine) 5-HTs 48445 hum 2 5μ M -5 22800 GABAA, flunitazepam, Central 48459 rat 2 5μ M 6 299034 Sindan Ast 84453 hum 2 5μ M -5 223010 <
22501 Europeer Bax 484708 hum 2 5 μ M 6 271110 Serotonin (5-Hydroxytryptamine) 5-HT _w 484609 hum 2 5 μ M -11 22600 Europeer Bax 484699 nut 2 5 μ M -2 5 μ M -13 22600 GKaba, Flunitazepam, Central 48469 nut 2 5 μ M -3 22600 GKaba, Flunitazepam, Central 48459 nut 2 5 μ M -6 22600 GKaba, Muscimol, Central 48459 nut 2 5 μ M -6 22600 GKaba, Muscimol, Central 48459 nut 2 5 μ M 6 22600 Gkaba, Muscimol, Central 48459 nut 2 5 μ M 6 22010 Giudoconticoid 48475 nut 2 5 μ M 6 29934 Sigma o 48453 nut 2 5 μ M -1 22010 Giudoconticoid 48476 nut 2 5 μ M -6 25500 70040 Homone 484578 nut 2 5 μ M
22010 Estrogen ERa 48469 hum 2 5μ M -2 27110 Sertonin (5-Hydroxytryptamine) 5-HTs 48468 hum 2 5μ M -13 22060 GABA, Fluntnzepan, Central 484840 rat 2 5μ M 0 271100 Sertonin (5-Hydroxytryptamine) 5-HTs 48463 hum 2 5μ M -3 22080 GABA, Muncimol, Central 48479 att 2 5μ M 0 271100 Sertonin (5-Hydroxytryptamine) 5-HTs 48464 hum 2 5μ M -5 22080 GABA, Muncimol, Central 48479 nt 2 5μ M 12 28600 They index prophyticatione) 5-HTs 48453 hum 2 5μ M -5 22080 GABA _{RA} 48458 hum 2 5μ M 12 278510 Sodium Channel, 81e 2 48453 hum 2 5μ M -7 220310 Glutamate, Kinhot 48477 rat 2 5μ M 7 220300 Transporter, Dopamine (DAT) 48457 hum 2 5μ M -7
22880 GABA, Funitazepam, Central 48449 rat 2 5 μM -13 22680 GABA, Funitazepam, Central 48459 rat 2 5 μM 6 271700 Serotonin (5-Hydroxytryptamine)5-HTs 48454 hum 2 5 μM -13 22680 GABA, Muscimic, Central 48459 rat 2 5 μM 6 29803 Sigma or 48454 hum 2 5 μM -5 22810 GABA, Muscimic, Central 48459 hum 2 5 μM 6 29803 Sigma or 48453 hum 2 5 μM -5 22010 Glucocorticoid 48475 nt 2 5 μM -6 26502 Tarybin Nr. 48453 hum 2 5 μM -3 220170 Glucocorticoid 48458 nt 2 5 μM -6 28500 Tarybin Nr. 48457 nt<
228600 GABA, Muscimol, Central 48479 rat 2 5 μM 6 271910 Serotomin (5-Hydroxytryptamine) 5-HTs 48470 hum 2 5 μM -5 228610 GABAe, Muscimol, Central 48450 hum 2 5 μM 12 298034 Sigma σ; 48453 hum 2 5 μM -6 223030 Glucocorticoid 48456 hum 2 5 μM 2 5 μM -6 223010 Glucomate, Kanate 48456 hum 2 5 μM -6 255520 Tachyskinin NK1 48453 hum 2 5 μM -6 223210 Glutamate, Kinate 48456 rat 2 5 μM -6 265520 Tachyskinin NK1 484675 nat 2 5 μM -6 223210 Glutamate, MIDA, Agonism 48476 rat 2 5 μM -7 200520 Transporter, Opagmine (DAT) 48452 hum 2 5 μM -6 223210 Glutamate, NIDA, Agonism 48474 rat 2 5 μM 1 206400 T
22860 GABA _{8-A} 48458 hum 2 5 μM 12 298034 Sigma or 48453 hum 2 5 μM 8 22810 Glucocorticoid 484758 hum 2 5 μM 6 276950 Sodium Channel, Sile 2 48453 hum 2 5 μM - 223210 Glucocorticoid 48476 rat 2 5 μM - 255520 Tachykinin NK1 484573 hum 2 5 μM - 223210 Glutamate, Kinhade, Kainate 48456 rat 2 5 μM - 255520 Tachykinin NK1 484573 hum 2 5 μM - 223210 Glutamate, Kinhade, Kainate 484747 rat 2 5 μM 6 20000 Tyroid Hormone 484578 rat 2 5 μM 6 223210 Glutamate, MINDA, Agonism 484774 rat 2 5 μM 6 20000 Tyroid Hormone 484578 rat 2 5 μM
222030 Glutamate, Kinduk Mark 48473 nut 2 5 µM 9 277610 Solution Channel, Sile 2 48453 nut 2 5 µM -1 222710 Glutamate, Kainate 484566 rat 2 5 µM -9 285500 Tachysinin Nri 484573 nut 2 5 µM -3 223210 Glutamate, Killouk, Glucine 484747 rat 2 5 µM -1 220320 Transporter, Dopamine (DAT) 484572 nut 2 5 µM 6 232910 Glutamate, MINDA, Agonism 484747 rat 2 5 µM 7 220320 Transporter, Dopamine (DAT) 48452 hum 2 5 µM 6 232910 Glutamate, MINDA, Agonism 48474 rat 2 5 µM 6 220320 Transporter, Dopamine (DAT) 484578 rat 2 5 µM 6 232910 Glutamate, MINDA, Phenocylinice 484774 rat 2 5 µM 1
232710 Glutamate, Kainate 484596 rat 2 5 μM -9 255520 Tachyknin NK1 484573 hum 2 5 μM -3 232810 Glutamate, KMDA, Agonism 48477 rat 2 5 μM 7 235900 Thyroid Hormone 484576 rat 2 5 μM 6 232910 Glutamate, NMDA, Agonism 484747 rat 2 5 μM 7 220300 Tansporter, Dopanine (DAT) 484522 hum 2 5 μM 6 232910 Glutamate, NMDA, Agonisme 484748 rat 2 5 μM 7 220400 Transporter, Dopanine (DAT) 484522 hum 2 5 μM 6 232910 Glutamate, NMDA, Hornorielline 484724 rat 2 5 μM 1 226400 Transporter, GABA 484578 rat 2 5 μM 1
232810 Glutamate, NMDA, Agonism 48474 rat 2 5 μM 7 285600 Thyroid Hormone 48476 rat 2 5 μM 6 232810 Glutamate, NMDA, Agonism 48474 rat 2 5 μM 6 220320 Glutamate, NMDA, Opycine 48474 rat 2 5 μM 6 232910 Glutamate, NMDA, Opycine 48474 rat 2 5 μM 6 220400 Transporter, Oppamine (DAT) 484522 hum 2 5 μM 6 20200 Glutamate, NMDA, Phoneviriline 484734 rat 2 5 μM 1
232910 Glutamate, NMDA, Glycine 484748 rat 2 5 μM 1 220320 Transporter, Dopamine (DAT) 484522 hum 2 5 μM 6 233000 Glutamate NMDA Phenovilidine 484724 rat 2 5 μM 5
233000 Glutamate NMDA Phencyclidine 484724 rst 2 5 µM 5
204410 Transporter, Norepinephrine (NET) 484521 hum 2 5 µM 14
238610 Histamine Hi 484873 hum 2 5 μ M -5 204610 Transporter, Norepinephrine (NET) 484521 hum 2 5 μ M 14 Addentities Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. Note: Items meeting criteria for significance (250% stimulation or inhibition)

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Fig 6 Off-Target panel assay of PG-003 against 68 targets conducted by Eurofins Panlabs. No significant (>50% inhibition) off-target effect was observed at a concentration of 5 μ M of PG-003.



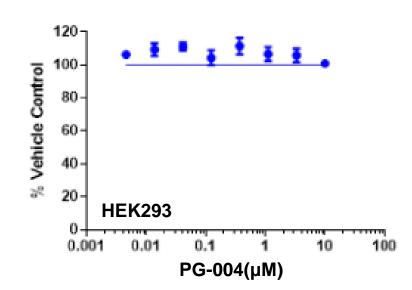


Fig 7 Cytotoxicity evaluation of PG-004 using HEK293. No significant cytotoxicity was observed at the concentration less than 10 µM of PG-004.

Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	Cat	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.
Compo	und: PD-ABE704-AA-1, PT #: 1262327	,					2397	0 Histamine H ₂	487476	hum	2	10 µM	-22
	,						2398		487282	hum	2	10 µM	-3
200510	Adenosine A ₁	487262	hum	2	10 µM	-5	2410		487346	rat	2	10 µM	-10
200610	Adenosine A _{2A}	487263	hum	2	10 µM	-1	2435		487446	hum	2	10 µM	0
200720	Adenosine A ₃	487427	hum	2	10 µM	1	2504		487468	hum	2	10 µM	1
203110	Adrenergic a1A	487350	hum	2	10 µM	9	2516		487458	hum	2	10 μM 10 μM	-3
203210	Adrenergic a18	487351	hum	2	10 µM	8	2526 2527		487269 487270	hum hum	2	10 µM	4 15
203400	Adrenergic and	487370	hum	2	10 µM	2	2528		487270	hum	2	10 µM	-6
203630	Adrenergic a24	487310	hum	2	10 µM	-8	2570	-	487366	hum	2	10 µM	-4
204010	Adrenergic β1	487332	hum	2	10 µM	2	2571		487462	hum	2	10 μM	-1
204110	Adrenergic B2	487333	hum	2	10 µM	1	2587	0 Nicotinic Acetylcholine α1, Bungarotoxin	487536	hum	2	10 µM	-6
206000	Androgen (Testosterone)	487278	hum	2	10 µM	0	2587	Nicotinic Acetylcholine α3β4	487289	hum	2	10 µM	-8
212520	Bradykinin B1	487265	hum	2	10 µM	-5	2601	0 Opiate δ1 (OP1, DOP)	487273	hum	2	10 µM	8
212620	Bradykinin B ₂	487331	hum	2	10 µM		2602	0 Opiate κ (OP2, KOP)	487274	hum	2	10 µM	16
212020	Calcium Channel L-Type, Benzothiazepine	487238	rat	2	10 μM		2604		487275	hum	2	10 µM	8
	Calcium Channel L-Type, Dihydropyridine			-			2645		487557	mouse	2	10 µM	13
214600		487371	rat	2	10 µM	_	2990		487291	hum	2	10 µM	10
216000	Calcium Channel N-Type	487372	rat	2	10 µM		2656		487469	ham	2	10 µM	9
217050	Cannabinoid CB1	487334	hum	2	10 µM		2659 2684		487467 487470	hum	2	10 μM 10 μM	27 5
219500	Dopamine D ₁	487363	hum	2	10 µM	-	2004		487470	hum rat	2	10 µM	6
219700	Dopamine D ₂₅	487397	hum	2	10 µM	1	2688	•	487340	rat	2	10 µM	10
219800	Dopamine D ₃	487398	hum	2	10 µM	2	2700		487434	rat	2	10 µM	13
220000	Dopamine D _{4.4}	487525	hum	2	10 µM	6	2711		487277	hum	2	10 μM	3
224010	Endothelin ETA	487375	hum	2	10 µM	-4	2717	Serotonin (5-Hydroxytryptamine) 5-HT _{2B}	487276	hum	2	10 µM	-9
224110	Endothelin ETB	487376	hum	2	10 µM	2	2719	O Serotonin (5-Hydroxytryptamine) 5-HT ₃	487465	hum	2	10 µM	-11
225510	Epidermal Growth Factor (EGF)	487521	hum	2	10 µM	2	2990	μ4 Sigma σ ₁	487314	hum	2	10 µM	9
226010	Estrogen ERa	487336	hum	2	10 µM	-6	2795	0 Sodium Channel, Site 2	487368	rat	2	10 µM	-1
226600	GABAA, Flunitrazepam, Central	487337	rat	2	10 µM	1	2555	0 Tachykinin NK1	487288	hum	2	10 µM	5
226500	GABAA, Muscimol, Central	487475	rat	2	10 µM	6	2859		487454	rat	2	10 µM	-2
228610	GABA _{B1A}	487285	hum	2	10 µM		2203		487324	hum	2	10 µM	-8
232030	Glucocorticoid	487279	hum	2	10 µM		2264		487284	rat	2	10 µM	-3
	Glutamate, Kainate			2	10 μM		2044	0 Transporter, Norepinephrine (NET)	487323	hum	2	10 µM	0
232710	Glutamate, NMDA, Agonism	487322	rat										
232810	, , , ,	487317	rat	2	10 µM			tems meeting criteria for significance (≥50% : n: Represents compounds tested concurrently) are highl	ighted.	
232910	Glutamate, NMDA, Glycine	487318	rat	2	10 µM			lamster; hum=Human	r in the same	ussuy(5).			
233000	Glutamate, NMDA, Phencyclidine	487286	rat	2	10 µM								
239610	Histamine H ₁	487266	hum	2	10 µM	4	Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.

Note: Items meeting criteria for significance (≥50% stimulation or inhibition) are highlighted. * Batch: Represents compounds tested concurrently in the same assay(s).

Fig 8 Off-Target panel assay of PG-004 against 68 targets conducted by Eurofins Panlabs. No significant (>50% inhibition) off-target effect was observed at a concentration of 10 μ M of PG-004, except glucocorticoid was inhibited by 64%.

Proprietary to be owned by PeptiGrowth Inc.

Transporter, Serotonin (5

Hydroxytryptamine) (SERT)

487244

hum

10 µM

ham=Hamster; hum=Human



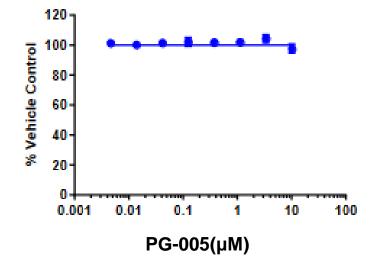


Fig 9 Cytotoxicity evaluation of PG-005 using HEK293. No significant cytotoxicity was observed at the concentration less than 10 µM of PG-005.

Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	IC 50*
Compo	und: PD-ABL877-AA-1, PT #: 1270570)					
200510	Adenosine A1	494604	hum	2	10 µM	6	
200610	Adenosine A2A	494605	hum	2	10 µM	-6	
200720	Adenosine A ₃	494781	hum	2	10 µM	27	
203110	Adrenergic Q1A	494675	hum	2	10 µM	8	
203210	Adrenergic a ₁₈	494676	hum	2	10 µM	8	
203400	Adrenergic a10	494677	hum	2	10 µM	-2	
203630	Adrenergic a2A	494613	hum	2	10 µM	-12	
204010	Adrenergic B1	494673	hum	2	10 µM	-3	
204110	Adrenergic B2	494683	hum	2	10 µM	-8	
206000	Androgen (Testosterone)	494664	hum	2	10 µM	-4	
212520	Bradykinin B1	494684	hum	2	10 µM	10	
212620	Bradykinin B2	494628	hum	2	10 µM	-9	
214510	Calcium Channel L-Type, Benzothiazepine	494739	rat	2	10 µM	-1	
214600	Calcium Channel L-Type, Dihydropyridine	494616	rat	2	10 µM	4	
216000	Calcium Channel N-Type	494723	rat	2	10 µM	-4	
217050	Cannabinoid CB1	494607	hum	2	10 µM	-16	
219500	Dopamine D1	494747	hum	2	10 µM	6	
219700	Dopamine D ₂₈	494695	hum	2	10 µM	-9	
219800	Dopamine Da	494748	hum	2	10 µM	14	
220000	Dopamine D4.4	494666	hum	2	10 µM	0	
224010	Endothelin ETA	494668	hum	2	10 µM	37	
224110	Endothelin ETs	494669	hum	2	10 µM	31	
225510	Epidermal Growth Factor (EGF)	494766	hum	2	10 µM	4	
226010	Estrogen ERa	494861	hum	2	10 µM	4	
226600	GABAA, Flunitrazepam, Central	494626	rat	2	10 µM	12	
226500	GABAA, Muscimol, Central	494782	rat	2	10 µM	1 5	
228610	GABABIA	494617	hum	2	10 µM	23	
232030	Glucocorticoid	494729	hum	2	10 µM	13	
232710	Glutamate, Kainate	494738	rat	2	10 µM	-6	
232810	Glutamate, NMDA, Agonism	494610	rat	2	10 µM	3	
232910	Glutamate, NMDA, Glycine	494611	rat	2	10 µM	9	
233000	Glutamate, NMDA, Phencyclidine	494859	rat	2	10 µM	1	
239610	Histamine H1	494612	hum	2	10 µM	4	

Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. * Batch: Represents compounds tested concurrently in the same assay(s).

ham=Hamster; hum=Human

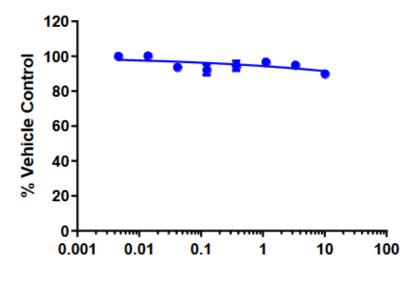
Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	IC ₅₀ *
239710	Histamine H ₂	494625	hum	2	10 µM	-5	
239820	Histamine H ₃	494662	hum	2	10 µM	12	
241000	Imidazoline I2, Central	494631	rat	2	10 µM	-16	
243530	Interleukin IL-1 R1	494743	hum	2	10 µM	-15	
250460	Leukotriene, Cysteinyl CysLT1	494759	hum	2	10 µM	-9	
251600	Melatonin MT ₁	494784	hum	2	10 µM	3	
252610	Muscarinic M1	494792	hum	2	10 µM	-2	
252710	Muscarinic M ₂	494790	hum	2	10 µM	1	
252810	Muscarinic Ma	494791	hum	2	10 µM	10	
257010	Neuropeptide Y Y1	494807	hum	2	10 µM	-6	
257110	Neuropeptide Y Y ₂	494788	hum	2	10 µM	-4	
258700	Nicotinic Acetylcholine a1, Bungarotoxin	494793	hum	2	10 µM	-4	
258730	Nicotinic Acetylcholine a3β4	494876	hum	2	10 µM	-20	
260130	Opiate δ1 (OP1, DOP)	494760	hum	2	10 µM	24	
260210	Opiate κ (OP2, KOP)	494761	hum	2	10 µM	16	
260410	Opiate µ (OP3, MOP)	494692	hum	2	10 µM	6	
264500	Phorbol Ester	494825	mouse	2	10 µM	-15	
299037	Platelet Activating Factor (PAF)	494691	hum	2	10 µM	-9	
265600	Potassium Channel [KATP]	494679	ham	2	10 µM	12	
265910	Potassium Channel hERG, [3H]Dofetilide	494624	hum	2	10 µM	5	
268420	Prostanoid EP4	494798	hum	2	10 µM	7	
299036	Purinergic P2X	494603	rat	2	10 µM	0	
268820	Purinergic P2Y, Non-Selective	494787	rat	2	10 µM	32	
270000	Rolipram	494687	rat	2	10 µM	-5	
271110	Serotonin (5-Hydroxytryptamine) 5-HT IA	494765	hum	2	10 µM	3	
271700	Serotonin (5-Hydroxytryptamine) 5-HT _{2B}	494674	hum	2	10 µM	-2	
271910	Serotonin (5-Hydroxytryptamine) 5-HT3	494693	hum	2	10 µM	1	
299034	Sigma σ1	494630	hum	2	10 µM	12	
279510	Sodium Channel, Site 2	494623	rat	2	10 µM	-3	
255520	Tachykinin NK1	494690	hum	2	10 µM	10	
285900	Thyroid Hormone	494764	rat	2	10 µM	-1	
220320	Transporter, Dopamine (DAT)	494615	hum	2	10 µM	7	
226400	Transporter, GABA	494727	rat	2	10 µM	3	
204410	Transporter, Norepinephrine (NET)	494614	hum	2	10 µM	7	

Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted * Batch: Represents compounds tested concurrently in the same assay(s). ham=Hamster: hum=Human

Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	IC 50*
274030	Transporter, Serotonin (5- Hydroxytryptamine) (SERT)	494622	hum	2	10 µM	4	

Fig 10 Off-Target panel assay of PG-005 against 68 targets conducted by Eurofins Panlabs. No significant (>50% inhibition) off-target effect was observed at a concentration of 10 μ M of PG-005.





PG-006(µM)

Fig 11 Cytotoxicity evaluation of PG-006 using HEK293. No significant cytotoxicity was observed at the concentration less than 10 µM of PG-006.

Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	IC 50*	Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	IC ₅₀
239710	Histamine H ₂	495873	hum	2	10 µN	1 3		Compo	und: PD-ABK567-AA-2, PT #: 127106	5					
239820	Histamine H ₃	495845	hum	2	10 µN	1 10		200510	Adenosine A1	496101	hum	2	10 µM	-17	
241000	Imidazoline Iz, Central	496060	rat	2	10 µN	-8		200610	Adenosine Aza	495919	hum	2	10 µM	-8	
243530	Interleukin IL-1 R1	496061	hum	2	10 µN	1 -8		200720	Adenosine A ₃	496052	hum	2	10 µM	9	
250460	Leukotriene, Cysteinyl CysLT1	495832	hum	2	10 µN	6		203110	Adrenergic g ta	495903	hum	2	10 µM	2	
251600	Melatonin MT1	496062	hum	2	10 µN	2		203210	Adrenergic ata	495906	hum	2	10 µM	-5	
252610	Muscarinic M1	495848	hum	2	10 µN	1 4		203210	Adrenergic and	495904	hum	2	10 µM	-2	
252710	Muscarinic M ₂	495848	hum	2	10 µN	16		203400	Adrenergic aza	495979	hum	2	10 µM	-2	
252810	Muscarinic M ₃	495849	hum	2	10 µN	6		203030	Adrenergic B1	495872	hum	2	10 µM	-4	
257010	Neuropeptide Y Y ₁	495878	hum	2	10 µN	1 -3		204010	Adrenergic B2	495890	hum	2	10 µM	17	
257110	Neuropeptide Y Y ₂	496066	hum	2	10 µN	1 10		206000	Androgen (Testosterone)	495844	hum	2	10 µM	2	
258700	Nicotinic Acetylcholine α1, Bungarotoxin	495874	hum	2	10 µN	-7		212520	Bradykinin B1	495847	hum	2	10 µM	2	
258730	Nicotinic Acetylcholine a3β4	496012	hum	2	10 µN	-14		212620	Bradykinin B2	495905	hum	2	10 µM	-3	
260130	Opiate δ1 (OP1, DOP)	495891	hum	2	10 µN	1 14		212620	Calcium Channel L-Type, Benzothiazepine	495883	rat	2	10 µM	0	
260210	Opiate ĸ (OP2, KOP)	495892	hum	2	10 µN	1 -4		214610	Calcium Channel L-Type, Dehadoniacephre	495965	rat	2	10 µM	4	
260410	Opiate µ (OP3, MOP)	495896	hum	2	10 µN	1 4		214000	Calcium Channel N-Type	495884	rat	2	10 µM	-11	
264500	Phorbol Ester	496065	mouse	2	10 µN	1 1		217050	Cannabinoid CB1	495911	hum	2	10 µM	-8	
299037	Platelet Activating Factor (PAF)	496011	hum	2	10 µN	-7		219500	Dopamine D ₁	496074	hum	2	10 µM	-11	
265600	Potassium Channel [KATP]	495970	ham	2	10 µN	1 3		219700	Dopamine D ₂₅	496054	hum	2	10 µM	10	
265910	Potassium Channel hERG, [³ H]Dofetilide	495833	hum	2	10 µN	26		219800	Dopamine D ₂	496053	hum	2	10 µM	-3	
268420	Prostanoid EP4	496008	hum	2	10 µN	-11		220000	Dopamine D44	496059		2	10 µM	-5	
299036	Purinergic P2X	495877	rat	2	10 µM	-9		220000		495885	hum hum	2	10 µM	-0	
268820	Purinergic P2Y, Non-Selective	495838	rat	2	10 µN	1 14		224010	Endothelin ETa	495886	hum	2	10 µM	11	
270000	Rolipram	495879	rat	2	10 µM	1 2		225510	Epidermal Growth Factor (EGF)	495846	hum	2	10 µM	11	
271110	Serotonin (5-Hydroxytryptamine) 5-HT1A	495900	hum	2	10 µM	1 13			Estrogen ERa	495973	hum	2	10 µM	17	
271700	Serotonin (5-Hydroxytryptamine) 5-HT ₂₈	495910	hum	2	10 µM	24		226010 226600	GABA, Flunitrazepam, Central	495973		2	10 µM	4	
271910	Serotonin (5-Hydroxytryptamine) 5-HT ₃	495971	hum	2	10 µN	-15		226600	GABA, Muscimol, Central	495902	rat	2	10 µM	0	
299034	Sigma o1	495980	hum	2	10 µM	1 15		226500	GABA _{BIA}	495907	rat	2	10 µM	30	
279510	Sodium Channel, Site 2	495960	rat	2	10 µN	1 -1			Glucocorticoid		hum		10 µM		
255520	Tachykinin NK1	495889	hum	2	10 µN	21		232030		495967	hum	2		24	
285900	Thyroid Hormone	495977	rat	2	10 µN	1 10		232710	Glutamate, Kainate Glutamate, NMDA, Agonism	496013	rat	2	10 µM	14	
220320	Transporter, Dopamine (DAT)	495881	hum	2	10 µN	1 14		232810		495887	rat	2	10 µM	1	
226400	Transporter, GABA	495854	rat	2	10 µM	-16		232910	Glutamate, NMDA, Glycine	495888	rat	2	10 µM	9	
204410	Transporter, Norepinephrine (NET)	495880	hum	2	10 µM	8		233000	Glutamate, NMDA, Phencyclidine	496018	rat	2	10 µM	-3	
								239610	Histamine H ₁	495857	hum	2	10 µM	12	

Note: Items meeting criteria for significance (250% stimulation or inhibition) are highlighted. * Batch: Represents compounds tested concurrently in the same assay(s) ham=Hamster: hum=Human

Note: Items meeting criteria for significance (≥50% stimulation or inhibition) are highlighted. * Batch: Represents compounds tested concurrently in the same assay(s) ham=Hamster: hum=Human

Cat #	Assay Name	Batch*	Spec.	Rep.	Conc.	% Inh.	IC50*
274030	Transporter, Serotonin (5- Hydroxytryptamine) (SERT)	495974	hum	2	10 µM	10	

Fig 12 Off-Target panel assay of PG-006 against 68 targets conducted by Eurofins Panlabs. No significant (>50% inhibition) off-target effect was observed at a concentration of 10 µM of PG-006.

Stability test of PG peptides in medium



ID	day1	day3	day7
PG-001	103	105	101
PG-002	9 8	95	92
PG-003	99	103	91
PG-004	104	103	102
PG-005	103	91	99
PG-006	102	101	97

Experimental condition

PG peptides were dissolved in advanced DMEM/F-12 medium (without serum) at a concentration of 0.1 μ M and incubated at 37°C. At certain time of incubation, samples were analyzed by LC/MS(Thermo Q-exactive) and the peak area was compared with the initial peak area (calculated as 100%) of each sample. n=2.