

EIF2AK3, Active

Catalog No: E11-11G

EIF2AK3 (also known Eukaryotic translation initiation factor 2-alpha kinase 3) is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malformed proteins. It phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2 (EIF2) leading to its inactivation and a rapid reduction of translational initiation and repression of global protein synthesis. EIF2AK3 plays a major role in the ability of cells to adapt to ER stress and is also involved in an integrated adaptive response to hypoxic stress in HeLa cells, in iron homeostasis and may play a role in hemolytic and inflammatory anemia. SignalChem's Recombinant human EIF2AK3 (563-1115) was expressed in E. coli cells using an N-terminal GST tag.

Unique Selling Points



Suitable for compound
profiling studies



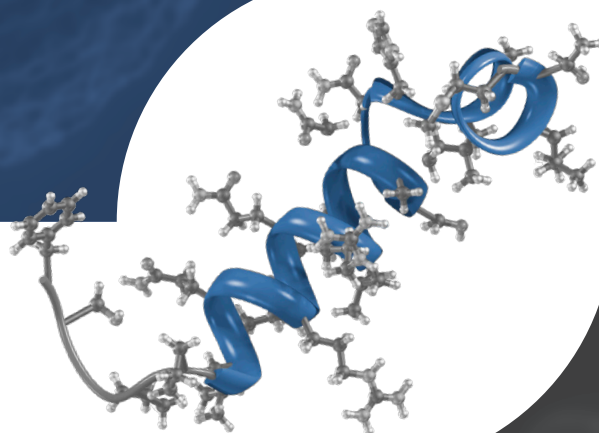
Activity determined using two
different assays



Purity Determined by
densitometry



Highly active kinase



Competitors



ThermoFisher
SCIENTIFIC



Target Customers



Scientists Studying
EIF2AK3 regulation



Companies developing
EIF2AK3 inhibitors



Biopharma researching
EIF2AK3 enzyme



Biotech developing
Anti- EIF2AK3 antibodies



Government research
organizations