Recombinant Human EIF2AK3 (N-GST tag)

Cat No:HR2R1344

For research use only

Overview

Quantity	10 ?g
Gene Symbol	EIF2AK3
Gene ID	N/A
Accession	NM_004836
Alternative Name	PERK, PEK, WRS, HRI, DKFZp781H1925
Species	Human
Source	Insect cells
Description	EIF2AK3 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 is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malfolded proteins . 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 . EIF2AK3 functions in iron homeostasis and may play a role in hemolytic and inflammatory anemia.
Functions	The specific activity of EIF2K3 was determined to be 18 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	115
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.