EEF2K Protein, Human (GST)

Cat. No.:	HY-P701676
Synonyms:	EEF2K; Eukaryotic elongation factor 2 kinase; eEF-2 kinase; eEF-2K; Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase
Species:	Human
Source:	E. coli
Accession:	O00418 (A2-E725)
Gene ID:	29904
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	EEF2K is a threonine kinase critically involved in the regulation of protein synthesis, acting as a key modulator of peptide chain elongation. Activation of EEF2K, triggered by various upstream kinases such as AMPK or TRPM7, leads to the phosphorylation of the elongation factor EEF2 at a specific site. This phosphorylation event renders EEF2 inactive, preventing its binding to ribosomes and, consequently, decelerating the rate of protein synthesis. The intricate control exerted by EEF2K in this molecular cascade highlights its pivotal role in modulating cellular processes related to protein translation.

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