

RP03360LQ

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Recombinant Human Eukaryotic elongation factor 2 kinase/EEF2K Kinase

Catalog No.: RP03360LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
E. coli	29904	O00418

Tags
N-GST

Synonyms
EEF2K; eEF-2 kinase; eEF-2K; Eukaryotic elongation factor 2 kinase

Product Information

Source	Purification
	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 500 mM NaCl, 5% glycerol. (pH 8.0). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Contact



www.abclonal.com

Background

Eukaryotic elongation factor-2 kinase (eEF-2 kinase or eEF-2K) is a highly conserved protein kinase in the calmodulin-mediated signaling pathway that links multiple up-stream signals to the regulation of protein synthesis. It phosphorylates eukaryotic elongation factor 2 (EEF2) and thus inhibits the EEF2 function. The activity of eEF-2K is dependent on calcium and calmodulin. And the activity of this kinase is increased in many cancers and may be a valid target for anti-cancer treatment. It is also suggested that eEF-2K may play a role the rapid anti-depressant effects of ketamine through its regulation of neuronal protein synthesis.

Basic Information

Description

Recombinant Human Eukaryotic elongation factor 2 kinase/EEF2K Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Ala2-Glu725) of Human EEF2K (Accession #O00418) fused with a N-GST tag.

Bio-Activity

The activity of EEF2K is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

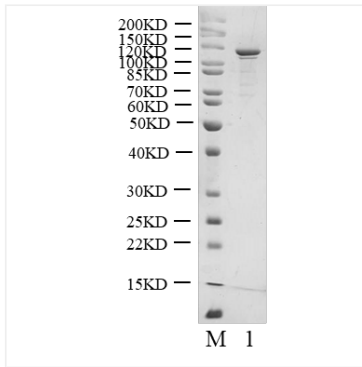
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

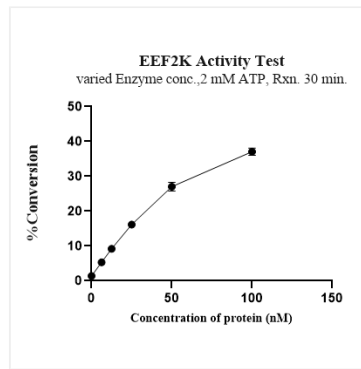
Avoid repeated freeze/thaw cycles.

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Validation Data



Recombinant Human Eukaryotic elongation factor 2 kinase/EEF2K Kinase was resolved with SDS-PAGE under reducing (Lane 1) conditions.



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