

# Recombinant Human Eukaryotic elongation factor 2 kinase/EEF2K Kinase

Catalog No.: RP03360LQ Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 29904 000418

Tags N-GST

**Synonyms** 

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

## **Product Information**

**Source** Purification E. coli ≥ 90 % as

≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by

HPLC.

Calculated MW Observed MW

108.5 kDa 100-120 kDa

**Endotoxin** 

< 1 EU/ $\mu g$  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

8	400-999-6126
<u> </u>	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

# **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 upstream 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 #000418) fused with a N-GST tag.

### **Bio-Activity**

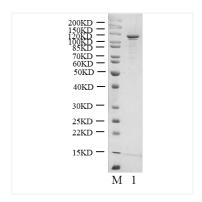
The activity of EEF2K is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

## Storage

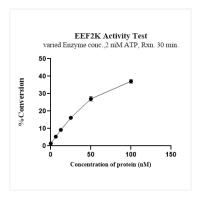
Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

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

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



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