

Bioactive

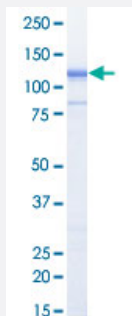
Full-Length

EEF2K (Human) Recombinant Protein

Catalog # P5544

Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human EEF2K (NP_037434.1, 1 a.a. - 725 a.a.) full-length recombinant protein with GST tag expressed in <i>Escherichia coli</i> .
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	109
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Glutathione sepharose chromatography
Purity	81 % by SDS-PAGE/CBB staining

Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate, Mg(or Mn)/ATP, and Ca/Calmodulin . The phosphorylated and unphosphorylated substrates were separated and detected by LabChip 3000. Substrate: EEf2Ktide. ATP: 100 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — EEf2K

Entrez GeneID	29904
Protein Accession#	NP_037434.1
Gene Name	EEF2K
Gene Alias	HSU93850, MGC45041, eEF-2K
Gene Description	eukaryotic elongation factor-2 kinase
Omim ID	606968
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a highly conserved protein kinase in the calmodulin-mediated signaling pathway that links activation of cell surface receptors to cell division. This kinase is involved in the regulation of protein synthesis. It phosphorylates eukaryotic elongation factor 2 (EEF2) and thus inhibits the EEF2 function. The activity of this kinase is increased in many cancers and may be a valid target for anti-cancer treatment. [provided by RefSeq]
Other Designations	calcium/calmodulin-dependent eukaryotic elongation factor-2 kinase calmodulin-dependent protein kinase III eEF-2 kinase elongation factor-2 kinase

Disease

- [Kidney Failure](#)
- [Tobacco Use Disorder](#)