EEF2K, GST-tag Recombinant

Catalog: 40057
Lot: 230502

Product Information

Description:	Recombinant full-length human EEF2K was expressed in Sf9 insect sells using an N-terminal GST-tag.
Species:	Human
Construct:	EEF2K (GST-Full Length)
Concentration:	0.10 mg/ml
Expression System:	Sf9
Purity:	≥70%
Format:	Aqueous buffer solution.
Formulated In:	50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM Glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol
MW:	125 kDa
Genbank Accession:	NM_013302
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Specific Activity:	42 pmol/min/µg
Assay Conditions:	EEF2K activity was measured by using the Ef2tide synthetic peptide substrate (RKKFGESEKTKTKEFL), diluted in distilled water to a final concentration of 1 mg/ml, in a [33P]-ATP based assay. Reaction was initiated by mixing increasing amounts of the EEF2K with 1250 pmoles of [33P]-ATP in 25 mM MOPS, pH 7.2, 12.5 mM β-glycerol-phosphate. 25 mM $MgCl_2$, 5 mM EGTA, 2 mM EDTA prepared with 250 µM DTT, co-factor calcium/calmodulin and substrate at a final concentration of 250 µg/ml. The reaction was initiated by addition of [33P]-ATP Assay Cocktail, followed by a 15-minute incubation at 30°C. The reaction was terminated by spotting the reaction mixture on phosphocellulose P81 paper, followed by three 10-minute washes with 1% phosphoric acid solution. Radioactivity was measured in a scintillation counter. The corrected activity (RLU) was calculated by removing the blank value for each sample. The Kinase Specific Activity was calculated as follows: RLU / [(specific activity of [33P]-ATP in cpm/pmol)*(Reaction time in min)*(Enzyme amount in µg or mg)] * [(Reaction Volume) / (Spot Volume)]. The blank was determined from a “no substrate” sample by replacing the substrate solution with an equal volume of distilled water.
Applications:	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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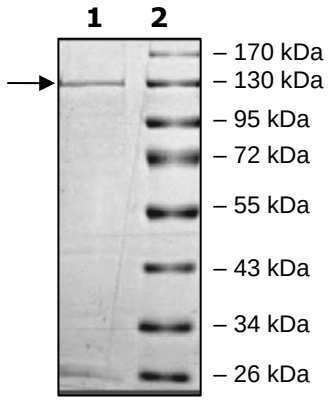
Quality Control Data

4-20% SDS-PAGE Coomassie Staining



Specific Activity