

Recombinant Human MAP4K5/MEKKK5 Protein (His & GST Tag)

Catalog No. PKSH030349

Note: Centrifuge before opening to ensure complete recovery of vial contents.

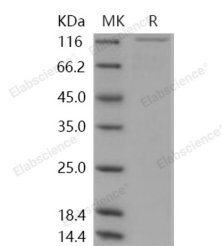
Description

Synonyms	GCKR;KHS;KHS1;MAPKKK5
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Tyr 846
Accession	NP_006566.2
Calculated Molecular Weight	123 kDa
Observed molecular weight	116 kDa
Tag	N-His-GST
Bioactivity	Not validated for activity

Properties

Purity	> 82 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as sterile solution of 50mM Tris, 100mM NaCl, 0.5mM PMSF, 0.5mM TCEP, pH 8.5
Reconstitution	Not Applicable

Data



> 82 % as determined by reducing SDS-PAGE.

Background

Mitogen-activated protein kinase kinase kinase kinase 5, also known as Kinase homologous to SPS1/STE20, MAPK/ERK kinase kinase kinase 5, MEK kinase kinase 5 and MAP4K5, is a cytoplasm protein which belongs to the protein kinase superfamily, STE Ser/Thr protein kinase family and STE20 subfamily. MAP4K5 is ubiquitously expressed in all tissues examined, with high levels in the ovary, testis and prostate. It contains one CNH domain and one protein kinase domain. MAP4K5 is highly similar to yeast SPS1/STE20 kinase. Yeast SPS1/STE20 functions near the beginning of the MAP

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kinase signal cascades that is essential for yeast pheromone response. MAP4K5 has been shown to interact with CRKL and TRAF2. This kinase was shown to activate Jun kinase in mammalian cells. MAP4K5 is an early component of MAP kinase signal cascades. It may play a role in the response to environmental stress. MAP4K5 appears to act upstream of the JUN N-terminal pathway.