

MAP4K5 Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	KHS;GCKR;MAPKKKK5;mitogen-activated protein kinase kinase kinase kinase 5;KHS1
Protein Construction:	A DNA sequence encoding the human MAP4K5 (NP_006566.2) (Met 1-Tyr 846) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q9Y4K4
Molecular Weight:	123 kDa (predicted); 116 kDa (reducing conditions)

QC Testing

Biological Activity:	Kinase activity untested
Purity:	> 75 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 0.5 mM TCEP, pH 8.5.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Mitogen-activated protein kinase kinase kinase kinase 5, also known as Kinase homologous to SPS1/STE2, MAPK/ERK kinase kinase kinase 5, MEK kinase kinase 5, and MAP4K5, is a cytoplasm protein that belongs to the protein kinase superfamily, STE Ser/Thr protein kinase family and STE2 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/STE2 kinase. Yeast SPS1/STE2 functions near the beginning of the MAP kinase signal cascades that are 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.

Reference

- Schultz SJ, et al.,1994, Cell Growth Differ. 4 (10): 821-30.
Tung RM, et al.,1997, Oncogene 14 (6): 653-9.
Shi, C S, et al., 1999, J. Immunol.163 (6): 3279-85.
Shi, C S, et al., 2000, Blood. 95 (3): 776-82.
Gu,Y. et al., 2006, J Hum Genet 51 (7): 605-10.

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