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

by Elabscience

Catalog Number: PKSH030349

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

## **Description**

Synonyms GCKR;KHS;KHS1;MAPKKKK5

**Species** Human

**Expression Host** Baculovirus-Insect Cells

SequenceMet 1-Tyr 846AccessionNP\_006566.2Calculated Molecular Weight123 kDaObserved molecular weight116 kDaTagN-His-GST

# **Properties**

**Purity** > 82 % as determined by reducing SDS-PAGE.

**Endotoxin**  $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$ 

Storage 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

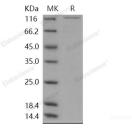
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

**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 5, MEK kinase kinase 5 and MAP4K5, is a cytoplasm protein which belongs to theprotein 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 oneCNH domain and oneprotein kinase domain. MAP4K5 is highly similar to yeast SPS1/STE20 kinase. Yeast SPS1/STE20 functions near the beginning of the MAP 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.

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