



Recombinant Protein Technical Manual

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

RPES1104

Product Data:

Product SKU: RPES1104

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: NP_006566.2

Protein Information:

Molecular Mass: 123 kDa

AP Molecular Mass: 116 kDa

Tag: N-His & GST

Bio-activity:

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

Endotoxin: < 1.0 EU per µg 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 50mM Tris, 100mM NaCl, 0.5mM PMSF, 0.5mM TCEP, pH 8.5

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: GCKR;KHS;KHS1;MAPKKKK5

Immunogen Information:

Sequence: Met 1-Tyr 846

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 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.