

Mitogen Activated Kinase Kinase 1 Active Protein | MEK1 active protein

Recombinant Human Mitogen Activated Kinase Kinase 1

CATALOG # AAA38618	HOST Sf9 Insect Cells
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PRODUCT SYNONYMS

Mitogen Activated Kinase Kinase 1; Recombinant Human Mitogen Activated Kinase Kinase 1; MEK1 Human; Mitogen Activated Kinase Kinase 1 Human Recombinant; MEK1; MKK1; MAPKK1; MAP2K1; Dual specificity mitogen-activated protein kinase kinase 1; MAP kinase kinase 1; EC 2.7.12.2; ERK activator kinase 1; MAPK/ERK kinase 1; PRKMK1; MEK1 active protein

PRODUCT SPECIFICATIONS

Host	Sf9 Insect Cells
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	MEK1 is supplied at a concentration of 0.09mg/ml in 40mM Tris, pH-8, 0.15M NaCl, 0.27M sucrose, 1mM DTT, 0.2mM PMSF, 1mM benzamidine, 0.1mM sodium vanadate and 0.03% Brij-35. Sterile Filtered clear solution.
Sequence Length	393
Source	Sf9 Insect Cells.
Biological Activity	~125-175 units/mg. One unit of MEK1 activity transfers 1 nmol of phosphate to ERK1/2 peptide per minute at 30 degree C in a reaction containing 100 uM ATP. Recombinant active MEK1 also phosphorylates ERK1, ERK2, and GSK-3?. Kinase activity may vary depending on the substrate and reaction conditions. The optimal concentration should be determined for each specific application.
Preparation and Storage	Store at 4°C if entire vial will be used within 1-2 weeks. Store frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MEK1 active protein	Description: MAP2K1 active Human Recombinant produced in Sf9 cells is a glycosylated, polypeptide chain containing amino acids 2-393 having a molecular mass of 47 kDa. MAP2K1 is fused to a polyhistidine tag and is purified by proprietary chromatographic techniques. Introduction: MAP2K1 is a member of the dual specificity protein kinase family, which plays a role as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, are recognized as extracellular signal-regulated kinases (ERKs), that act as an integration position for multiple biochemical signals. MEK1 is located upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As a key player of MAP kinase signal transduction pathway, MEK1 is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. MAP2K1 catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a thr-glu-tyr sequence located in map kinases. MEK1 activates erk1 and erk2 map kinases.
Product Categories/Family for MEK1 active protein	Protein Kinases; Enzymes; Protein Kinases

NCBI AND UNIPROT INFORMATION

NCBI GI #	5579478
NCBI GeneID	5604

NCBI Accession #	NP_002746.1
NCBI GenBank Nucleotide #	NM_002755.3
UniProt Accession #	Q02750
NCBI Official Full Name	dual specificity mitogen-activated protein kinase kinase 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 1
NCBI Official Symbol	MAP2K1
NCBI Official Synonym Symbols	CFC3; MEK1; MKK1; MAPKK1; PRKMK1
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 1; ERK activator kinase 1; MAPK/ERK kinase 1; MAPKK 1; MEK 1; protein kinase, mitogen-activated, kinase 1 (MAP kinase kinase 1)
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 1
UniProt Gene Name	MAP2K1
UniProt Synonym Gene Names	MEK1; PRKMK1; MAP kinase kinase 1; MAPKK 1; MKK1; MEK 1
UniProt Entry Name	MP2K1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sf9-insect-cells-mek1-active-protein/mitogen-activated-kinase-kinase-1/38618>