

Recombinant human MEK1 protein

Catalog Number: ATGP3779

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-393aa

UniProt No.

Q02750

NCBI Accession No.

NP_002746.1

Alternative Names

Dual specificity mitogen-activated protein kinase kinase 1, MAP2K1, CFC3, MAPKK1, MEK1, MKK1, PRKMK1

PRODUCT SPECIFICATION

Molecular Weight

44.5 kDa (402aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

MAP2K1, is a member of the bispecific protein kinase family, which acts as a mitogen-activated protein (MAP) kinase. It is expressed extensively and brain levels are very low. It is located upstream of the MAP kinase and stimulates the enzymatic activity of MAP kinases on a variety of extra-and-cellular signals. This protein, an essential component of the MAP kinase signaling pathway, is involved in many cellular processes such as

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proliferation, differentiation, transcriptional regulation and development. Recombinant human MAP2K1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<ADP>MPKKKPT PIQLNPAPDG SAVNGTSSAE TNLEALQKKL EELELDEQQR KRLEAFLTQK QKVGELKDDD FEKISELGAG
NGGVVFKVSH KPSGLVMARK LIHLEIKPAI RNQIIRELQV LHECNSPYIV GFYGFYSDG EISICMEHMD GGSLDQVLKK
AGRIPEQILG KVSIAVIKGL TYLREKHKIM HRDVKPSNIL VNSRGEIKLC DFGVSGQLID SMANSFVGTR SYMSPERLQG
THYSVQSDIW SMGLSLVEMA VGRYPPIPPD AKELELMFGC QVEGDAAETP PPRPTPGRPL SSYGMDSRPP MAIFELLDYI
VNEPPPKLPS GVFSLEFQDF VNKCLIKNPA ERADLKQLMV HAFIKRSDAE EVDFAGWLCS TIGLNQPSTP THAAGV<HHHH
HH>

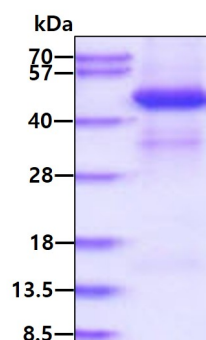
General References

Hirata H., et al. (2012) Carcinogenesis. 33:41-48.

Rampoldi L., et al. (1998) Cytogenet Cell Genet. 78:301-303.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.