

Recombinant human MEK2 protein

Catalog Number: ATGP1520

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-400aa

UniProt No.

P36507

NCBI Accession No.

NP_109587

Alternative Names

Mitogen-activated protein kinase kinase 2, MAP kinase kinase 2, MAPKK2, MAPK/ERK kinase 2, MEK2, MKK2, PRKMK2, ERK activator kinase 2

PRODUCT SPECIFICATION

Molecular Weight

46.9 kDa (424aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

Purity

> 90% by SDS-PAGE

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

MAP2K2, also known as MEK2, belongs to the STE grouping of kinases. Both MEK2 and the related MEK1 are dualspecificity kinases, phosphorylating and activating the mitogen-activated protein kinases ERK1 and ERK2 at T and Y positions within the phosphoacceptor sequence T-E-Y. MAP2K2 is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx. Recombinant human MAP2K2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

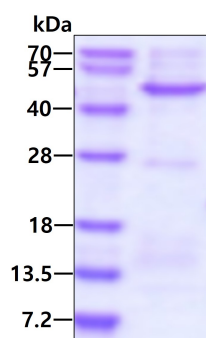
<MGSSHHHHHH SSGLVPRGSH MGSH>MLARRK PVLPAITNP TIAEGPSPTS EGASEANLVD LQKKLEELEL
DEQQKKRLEA FLTQKAKVGE LKDDDFERIS ELGAGNGGVV TKVQHRPSGL IMARKLIHLE IKPAIRNQII RELQVLHECN
SPYIVGFYGA FYSDGEISIC MEHMDGGSLD QVLKEAKRIP EEILGKVSIA VLRGLAYLRE KHQIMHRDVK PSNILVNSRG
EIKLCDFGVS QQLIDSMANS FVGTRSYMAP ERLQGTHYSV QSDIWSMGLS LVELAVGRYP IPPPDAKELE AIFGRPVDG
EEGEPHSISP RPRPPGRPVS GHGMDSRPAM AIFELLDYIV NEPPPCLPNG VFTPDPQEFV NKCLIKNP AE RADLKMLTNH
TFIKRSEVEE VDFAGWLCKT LRLNQPGTPT RTAV

General References

Crews C M., et al. (1992) Science. 258:478-480.
Rosen L B., et al. (1994) Neuron. 12: 1207-1221.

DATA

SDS-PAGE



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