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 proetin, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

chromatography techniques.

Amino acid Sequence

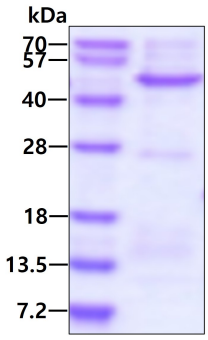
<MGSSHHHHHH SSGLVPRGSH MGSH>MLARRK PVLPALTINP TIAEGPSPTS EGASEANLVD LQKKLEELEL DEQQKKRLEA FLTQKAKVGE LKDDDFERIS ELGAGNGGVV TKVQHRPSGL IMARKLIHLE IKPAIRNQII RELQVLHECN SPYIVGFYGA FYSDGEISIC MEHMDGGSLD QVLKEAKRIP EEILGKVSIA VLRGLAYLRE KHQIMHRDVK PSNILVNSRG EIKLCDFGVS GQLIDSMANS FVGTRSYMAP ERLQGTHYSV QSDIWSMGLS LVELAVGRYP IPPPDAKELE AIFGRPVVDG EEGEPHSISP RPRPPGRPVS GHGMDSRPAM AIFELLDYIV NEPPPKLPNG VFTPDFQEFV NKCLIKNPAE 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.