PRODUCT INFORMATION

Expression system E.coli

Domain 1-124aa

UniProt No. Q9UHA4

NCBI Accession No. NP_068805

Alternative Names Mitogen-activated protein kinase scaffold protein 1, MAP2K1IP1, MAPBP, MP1

PRODUCT SPECIFICATION

Molecular Weight 15.8 kDa (144aa) confirmed by MALDI-TOF

Concentration 0.5mg/ml (determined by Bradford assay)

Formulation Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 5mM DTT, 100mM NaCl

Purity > 95% 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

MAPKSP1 (Mitogen-activated protein kinase scaffold protein 1) is a scaffold protein that functions in the extracellular signal-regulated kinase (ERK) cascade. The protein is localized to late endosomes by the mitogenactivated protein-binding protein-interacting protein, and binds specifically to MAP kinase kinase MAP2K1/MEK1, MAP kinase MAPK3/ERK1, and MAP kinase MAPK1/ERK2. Recombinant human MAPKSP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MADDLKRFLY KKLPSVEGLH AIVVSDRDGV PVIKVANDNA PEHALRPGFL STFALATDQG SKLGLSKNKS IICYYNTYQV VQFNRLPLVV SFIASSSANT GLIVSLEKEL APLFEELRQV VEVS

General References

Wunderlich, et al. (2001) J. Cell Biol. (united States) 152 (4): 765-76. Schaeffer HJ, et al. (1998) Science 281 (5383): 1668-71.

DATA

SDS-PAGE	
(kDa) 70 57	-
40	-
28	-
18	
13.5	

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

15% SDS-PAGE (3ug)

