Recombinant human MKP-3 protein

Catalog Number: ATGP2774

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-381aa

UniProt No.
Q16828

NCBI Accession No.
NP_001937.2

Alternative Names
Dual specificity phosphatase 6 isoform a, MKP3, PYST1

PRODUCT SPECIFICATION

Molecular Weight
44.4 kDa (401aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity
> 85% 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
DUSP6 is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli.

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Recombinant human DUSP6 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

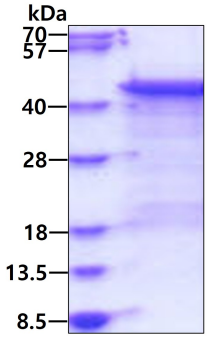
<MGSSHHHHHH SSGLVPRGSH> MIDTLRPVPF ASEMAISKTV AWLNEQLELG NERLLLMDCR PQELYESSHI ESAINVAIPG IMLRRLQKGN LPVRALFTRG EDRDRFTRRC GTDTVVLYDE SSSDWNENTG GESVLGLLLK KLKDEGCRAF YLEGGFSKFQ AEFSLHCETN LDGSCSSSSP PLPVLGLGGL RISSDSSSDI ESDLDRDPNS ATDSDGSPLS NSQPSFPVEI LPFLYLGCAK DSTNLDVLEE FGIKYILNVT PNLPNLFENA GEFKYKQIPI SDHWSQNLSQ FFPEAISFID EARGKNCGVL VHCLAGISRS VTVTVAYLMQ KLNLSMNDAY DIVKMKKSNI SPNFNFMGQL LDFERTLGLS SPCDNRVPAQ QLYFTTPSNQ NVYQVDSLQS T

General References

Groom L.A., Sneddon A.A., et al. (1996) EMBO J. 15:3621-3632

DATA

SDS-PAGE



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