Recombinant human DUSP17/DUSP19 protein

Catalog Number: ATGP1317

PRODUCT INFORMATION

Expression system
E.coli

Domain
65-217aa

UniProt No.
Q8WTR2

NCBI Accession No.
NP_543152

Alternative Names
Dual specificity phosphatase 19, DuSP17, SKRP1, TS-DSP1, Dual specificity phosphatase TS-DSP1, Low molecular weight dual specificity phosphatase 3, LMW-DSP3, Protein phosphatase SKRP1, Stress-activated protein kinase pathway-regulating phosphatase 1, SAPK pathway-regulating phosphatase 1, LMWDSP3

PRODUCT SPECIFICATION

Molecular Weight
19.4 kDa (176aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

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
Dual specificity phosphatase 19, also known as DuSP19, is a member of the dual specificity protein phosphatase subfamily. DuSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. They have been implicated as major modulators of critical signaling pathways. DuSP19 is a protein phosphatase which functions as a stress-activated protein kinase pathway-regulating phosphatase. DuSP19

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contains a variation of the consensus DuSP C-terminal catalytic domain, with the last serine residue replaced by alanine, and lacks the N-terminal CH2 domain found in the MKP class of DuSPs. Recombinant human DuSP19 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

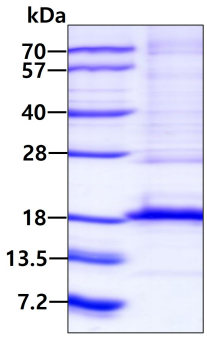
<MGSSHHHHHH SSGLVPRGSH MGS>QVGVIKP WLLLGSQDAA HDLDTLKKNK VTHILNVAYG VENAFLSDFT YKSISILDLP ETNILSYFPE CFEFIEEAKR KDGVVLVHCN AGVSRAAAIV IGFLMNSEQT SFTSAFSLVK NARPSICPNS GFMEQLRTYQ EGKESNKCDR IQENSS

General References

Cheng H., et al. (2003) Int J BoiChem Cell Biol. 35(2):226-34.
Zama Takeru., et al. (2002) J Boil Chem. 277(26):23909-18.

DATA

SDS-PAGE



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