

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

> 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

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 SGLVPRGSH MGSQVGVIKP WLLGSDAA HDLDTLKKNK VTHILNVAYG VENAFLSDFT YKISILDLP
ETNILSYFPE CFEFIEEAKR KDGVVLVHCN AGVSRAAAIV IGFLMNSEQT SFTSAFSLVK NARPSICPNS GFMEQLRTYQ
EGKESNKCDR IQENSS

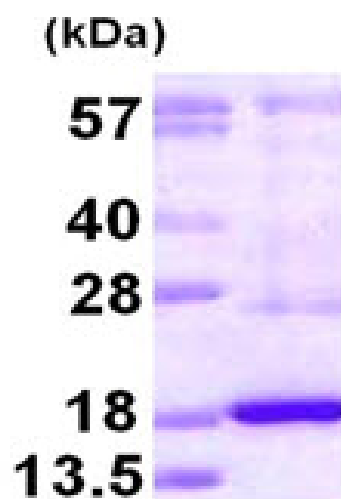
General References

Cheng H., et al. (2003) *Int J BioChem 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.

15% SDS-PAGE (3ug)