

Recombinant human DUSP18 protein

Catalog Number: ATGP1435

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-188aa

UniProt No.

Q8NEJ0

NCBI Accession No.

NP_689724

Alternative Names

Dual specificity protein phosphatase 18, DSP18, DUSP20, Low molecular weight dual specificity phosphatase 20, LMW-DSP20, LMWDSP20

PRODUCT SPECIFICATION

Molecular Weight

23.6 kDa (212aa) 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, 40% glycerol, 0.1mM PMSF, 1mM EDTA

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

Dual specificity phosphatase 18, also known as DuSP18, is a member of the dual-specificity phosphatase (DSP) family, which catalyzes dephosphorylation of phosphotyrosine and phosphothreonine residues. DuSP18 is inhibited by iodoacetate and is activated by manganese ions. Along with having preferential enzymatic activity against phosphorylated tyrosine residues over threonine residues, DuSP18 also dephosphorylates p-nitrophenyl phosphate (pNPP) in vitro. This protein is widely expressed with highest levels in liver, brain, ovary

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and testis. Recombinant human DuSP18 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSHTAPSC AFPVQFRQPS VSGLSQITKS LYISNGVAAN NKLMLSSNQI TMVINVSVEV
VNTLYEDIQY MQVPVADSPN SRLCDDFDPI ADHIHSVEMK QGRTLLHCAA GVSRSALCL AYLMKYHAMS LLDAHTWTKS
CRPIIRPNSG FWEQLIHIEF QLFGKNTVHM VSSPVGMIPI IYEKEVRLMI PL

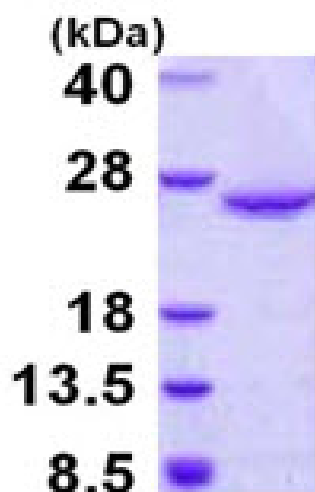
General References

Jeong D G., et al. (2006) Acta Crystallogr. 62:582-588.

Aoki N., et al. (2001) J Biochem. 130:133-140.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)