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# Recombinant human DUSP21 protein

Catalog Number: ATGP1393

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-190aa

#### **UniProt No.**

O9H596

# **NCBI Accession No.**

NP 071359

#### **Alternative Names**

Dual specificity protein phosphatase 21, Low molecular weight dual specificity phosphatase 21, LMW-DSP21

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

24.1 kDa (214aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM 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**

DuSP21 (Dual specificity protein phosphatase 21) belongs to the protein-tyrosine phosphatase family. Dual specificity protein phosphatases (DuSPs) inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. This enzyme can dephosphorylate single and diphosphorylated synthetic MAPK peptides, with preference for the phosphotyrosine and diphosphorylated forms over phosphothreonine. It is exclusively expressed in testis where is preferentially dephosphorylates phosphotyrosine residues in MAPK peptides. Recombinant human DuSP21 protein, fused to His-tag at N-



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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

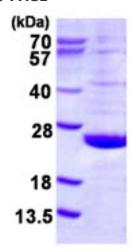
MGSSHHHHHH SSGLVPRGSH MGSHMTASAS SFSSSQGVQQ PSIYSFSQIT RSLFLSNGVA ANDKLLLSSN RITAIVNASV EVVNVFFEGI QYIKVPVTDA RDSRLYDFFD PIADLIHTID MRQGRTLLHC MAGVSRSASL CLAYLMKYHS MSLLDAHTWT KSRRPIIRPN NGFWEQLINY EFKLFNNNTV RMINSPVGNI PDIYEKDLRM MISM

#### **General References**

Hood, K.L., et al. (2002) Biochem. Biophys. Res. Commun. 298: 545-551. Keyse, S.M. (1995) Biochim. Biophys. Acta 1265: 152-160.

#### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

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

