

Recombinant Human Dual Specificity Protein Phosphatase 21, His-tagged

Cat. No. DUSP21-1393H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DUSP21 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	DUSP21 (Dual specificity protein phosphatase 21) belongs to the protein-tyrosine phosphatase family. This enzyme can dephosphorylate single and diphosphorylated synthetic MAPK peptides, with preference for the phosphotyrosine and diphosphorylated form over phosphothreonine. It is exclusively expressed in testis where it preferentially dephosphorylates phosphotyrosine residues in MAPK peptides.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 150mM NaCl.
Molecular Weight	24.1 kDa (214aa), confirmed by MALDI-TOF.
Purity	> 90% by SDS-PAGE
Concentration	0.25mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSH MGSMTASAS SFSSSQGVQQ PSYISFSQIT RSLFLSNGVA ANDKLLLSSNRITAIVNASV EVNVFFEGI QYIKVPVTDA

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RDSRLYDFFD PIADLIHTID MRQGRTLLHC MAGVSRASLCLAYLMKYHS
MSLLDAHTWT KSRRPIIRPN NGFWEQLINY EFKLFNNNTV RMINSPVGN
PDIYEKDLRMMISM

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

nullValue_other
Function

MAPkinase tyrosine/serine/threonine phosphatase activity; hydrolase activity;prote
in tyrosine phosphatase activity; protein tyrosine/serine/threoninephosphatase activ
ity

GENE INFORMATION

Gene Name

DUSP21 dual specificityphosphatase 21 [Homo sapiens]

Official Symbol

DUSP21

Synonyms

DUSP21; dual specificityphosphatase 21; LMWDSP21; MGC149878; BJ-HCC-26
tumor antigen; lowmolecular weight dual specificity phosphatase 21;
OTTHUMP00000023174; EC 3.1.3.16;EC 3.1.3.48; Dual specificity phosphatase 21;
Lowmolecular weight dual specificity phosphatase 21; LMW-DSP21

Gene ID

63904

mRNA Refseq

NM_022076

Protein Refseq

NP_071359

MIM

300678

UniProt ID

Q9H596

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Chromosome	Xp11.4-p11.23
Location	

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