

# Recombinant Human Dual Specificity Phosphatase 18, His-tagged

**Cat. No.** DUSP18-1923H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human DUSP18 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1mM PMSF, 1mM EDTA.
<b>Molecular Weight</b>	23.6 kDa(212aa) confirmed by MALDI-TOF
<b>Purity</b>	> 95% by SDS-PAGE
<b>Concentration</b>	0.5mg/ml (determined by Bradford assay)
<b>Sequences of amino acids</b>	MGSSHHHHHSSGLVPRGSH MGSHTAPSC AFPVQFRQPS VSGLSQITKS LYIS NGVAAN NKLMLSSNQI TMVINVSVEVVNTLYEDIQYMQVPVADSPNSRLCDDFDPI ADHIHSVEMK QGRTLLHCAA GVSRSALCL AYLMKYHAMS LLDHTWTKS CRPII RPNSGFWEQLIHYEF QLFGKNTVHM VSSPVGMIPD IYEKEVRLMI PL
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store

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at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

<b>Gene Name</b>	DUSP18 dual specificity phosphatase 18 [ Homo sapiens ]
<b>Official Symbol</b>	DUSP18
<b>Synonyms</b>	DUSP18; dual specificity phosphatase 18; DSP18; DUSP20; LMWDSP20; bK963H5.1; LMW-DSP20; low molecular weight dual specificity phosphatase 20; EC 3.1.3.16; EC 3.1.3.48
<b>Gene ID</b>	150290
<b>mRNA Refseq</b>	NM_152511
<b>Protein Refseq</b>	NP_689724
<b>MIM</b>	611446
<b>UniProt ID</b>	Q8NEJ0
<b>Chromosome Location</b>	22q12.1
<b>Function</b>	MAP kinase tyrosine/serine/threonine phosphatase activity; hydrolase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity
<b>PDB rendering based on 2esb.</b>	

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