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**Product Data Sheet**


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Product Name: DUSP18 Human  
 Cat. No.: GP21578  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dual specificity protein phosphatase 18; Low molecular weight dual specificity phosphatase 20; LMW-DSP20; DUSP18; LMWDSP20; VHP; DUSP26.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTAPSC AFPVQFRQPS VSGLSQITKS LYISNGVAAN NKLMLSSNQI TMVINVSVEV VNTLYEDIQY MQVPVADSPN SRLCDDFDPI ADHIHSVEMK QGRTLLHCAA GVSRSAAALCL AYLMKYHAMS LLDAHTWTKS CRPIIRPNSG FWEQLIHIEF QLFGKNTVHM VSSPVGMIPD IYEKEVRLMI PL.		
Formulation	The DUSP18 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 40% glycerol, 0.1mM PMSF and 1mM EDTA.		

**Introduction**

Dual specificity phosphatase 18 (DUSP18) belongs to the dual-specificity phosphatase (DSP) family, which catalyzes dephosphorylation of phosphotyrosine and phosphothreonine residues. DUSP18 has a preferential enzymatic activity for phosphorylated tyrosine residues over threonine residues, in addition DUSP18 dephosphorylates p-nitrophenyl phosphate (pNPP) in vitro. Furthermore, DUSP18 is inhibited by iodoacetate and is activated by manganese ions. DUSP18 is extensively expressed with the highest levels in the liver, brain, ovary and testis.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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DUSP18 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 212 amino acids (1-188) and having a molecular mass of 23.6kDa. DUSP18 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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