

## DUSP18 Human

**Description:**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.

Catalog #:ENPS-589

For research use only.

**Synonyms:**Dual specificity protein phosphatase 18, Low molecular weight dual specificity phosphatase 20, LMW-DSP20, DUSP18, LMWDSP20, VHP, DUSP26.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSMTAPSC AFPVQFRQPS  
VSGLSQITKS LYISNGVAAN NKMLSSNQI TMVINVSVEV VNTLYEDIQY MQVPVADSPN  
SRLCDFDPI ADHHSVEMK QGRTLLHCAA GVSRSALCL AYLMKYHAMS LLDAHTWTKS  
CRPIIRPNSG FWEQLIHYEF QLFKNTVHM VSSPVMIPD IYEKEVRLMI PL.

**Purity:**Greater than 95% as determined by SDS-PAGE.

### 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.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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 iodoarectic acid and is activated by manganese ions. DUSP18 is extensively expressed with the highest levels in the liver, brain, ovary and testis.

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