

**DUSP18, 1-188aa, Human, His-tag, E.coli (Bioactivity Validated)**

**Cat.NO.: TP01934**

3th Edition

**Synonyms:**Dual specificity protein phosphatase 18, DSP18, DUSP20

**Description:**Dual specificity phosphatase 18, also known as DUSP18, is a member of the dual-specificity phosphatase (DSP) family, which catalyzes dephosphorylation of phosphotyrosine and phosphothreonine residues. DUSP18 is inhibited by iodoarectic acid and is activated by manganese ions. Along with having preferential enzymatic activity against phosphorylated tyrosine residues over threonine residues, DUSP18 also dephosphorylates p-nitrophenyl phosphate (pNPP) in vitro. This protein is widely expressed with highest levels in liver, brain, ovary and testis. Recombinant human DUSP18 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1mM PMSF, 1mM EDTA

**Molecular Weight:**23.6 kDa (212aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSHMTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKMLLSSNQITMVIN  
VSVEVVNTLYEDIQYMQVPVADSPNSRLCDFDPIADHIHSVEMKQGRLLHCAAGVSRSAALCLAYLMKYHAMSL  
LDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHVMVSSPVGMIPDIYEKEVRLMIPL

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.