

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 iodoacetate 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:

MGSSHHHHHSSGLVPRGSHMGSHMTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKMLLSSNQITMVIN
VSVEVVNTLYEDIQYMQVPVADSPNSRLCDFDPIADHIHSVEMKQGRLLHCAAGVSRSAALCLAYLMKYHAMSL
LDAHTWTKSCRPIIRPNSGFWEQLIHYEFLFGKNTVHVMVSSPVGMIPDIYEKEVRLMIPL

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.