

**CTDSP1, 1-260aa, Human, His tag, E.coli**

**Cat.NO.: TP01763**

---

3th Edition

**Synonyms:**Carboxy-terminal domain, RNA polymerase II, polypeptide A phosphatase 1, NLIIF, SCP1, NIF3

**Description:**Carboxy-terminal domain, RNA polymerase II, polypeptide A phosphatase 1, also known as CTDSP1, is a class 2C phosphatase with activity dependent on the conserved DxD motif. CTDSP1 preferentially catalyzes the dephosphorylation of 'Ser-5' within the tandem 7 residues repeats in the C-terminal domain (CTD) of the largest RNA polymerase II subunit POLR2A.

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

**Molecular Weight:**31.2 kDa (280aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMDSSAVITQISKEEARGPLRGKGDQKSAASQKPRSRGILHSLFCCVCRDDGEALP  
AHSGAPLLVEENGAIPKTPVQYLLPEAKAQDSKICVVIDLDELTVHSSFKPVNNADFIIPVEIDGVVHQVYVLRPHV  
DEFLQRMGELFECVLFTASLAKYADPVADLLDKWGAFRARLFRESCVFHRGNVVKDLSRLGRDLRRVLILDNSPAS  
YVFHPDNAVPVASWFDNMSDELHLLPFFEQLSRVDDVYSVLRQPRPGS

**Purity:**> 95% by HPLC

**Concentration:**1 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.