

## CTDSP1 Human

**Description:**CTDSP1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 280 amino acids (1-260 a.a.) and having a molecular mass of 31.2kDa.CTDSP1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:**ENPS-117

For research use only.

**Synonyms:**Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1, Nuclear LIM interactor-interacting factor 3, NLI-IF, NLI-interacting factor 3, Small C-terminal domain phosphatase 1, SCP1, Small CTD phosphatase 1, CTDSP1, NIF3, NLIIF.

**Source:**Escherichia Coli.

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

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MDSSAVITQI SKEEARGPLR  
GKGDQKSAAS QKPRSRGILH SLFCCVCRDD GEALPAHSGA PLLVEENGAI PKTPVQYLLP  
EAKAQDSKI CVVIDLDELTH VHSFVKPVNN ADIIPVEID GVVHQVYVLK RPHVDEFLQR  
MGELFECVLF TASLAKYADP VADLLDKWGA FRARLFRESC VFHRGNYVKD LSRLGRDLRR  
VLILDNSPAS YV

**Purity:**Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

CTDSP1 solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 20% glycerol and 0.1M NaCl.

**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. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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. In addition, CTDSP1 negatively regulates RNA polymerase II transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation.

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