Recombinant Human CTD (Carboxy-Terminal Domain, RNA Polymerase II, Polypeptide A) Small, Phosphatase 1, His-tagged

Cat. No. CTDSP1-975H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CTDSP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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. Also it negatively regulates RNA polymerase II transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation.
Formulation	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl
Purity	> 90% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of animo	MGSSHHHHHH SSGLVPRGSHMDSSAVITQI SKEEARGPLR GKGDQKSAAS

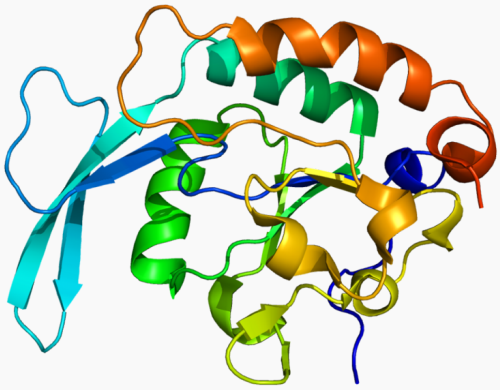
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acids	QKPRSRGILH SLFCCVCRDD GEALPAHSGA PLLVEENGAIPKTPVQYLLP EAKAQDSDKI CVVIDLDETL VHSSFKPVNN ADFIIPVEID GVVHQVYVLK RPHVDEFLQR MGELFECVLF TASLAKYADP VADLLDKWGA FRARLFRESC VFHRGNYVKD LSRLGRDLRR VLILDNSPAS YVFHPDNAVP VASWFDNMSD TELHDLLPFF EQLSRVDDVYSVLRQPRPGS
Storgage	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.

GENE INFORMATION

Gene Name	CTDSP1 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 [Homo sapiens]
Synonyms	CTDSP1;CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small,phosphatase 1;small CTD phosphatase 1;NLI-interacting factor 3;small C-terminal domain phosphatase 1;nuclear LIM interactor-interacting factor 3;carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1;SCP1; NLIIF; CTDSP1;nuclear LIMinteractor-interacting factor;small CTD phosphatase 1;EC 3.1.3.16;NIF3;NLI-IF;CTD (carboxy-terminal domain, RNA polymerase II,NLI-interacting factor 3
Gene ID	58190
mRNA Refseq	NM_021198
Protein Refseq	NP_067021
MIM	605323
UniProt ID	Q9GZU7

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Chromosome Location	2q35
Function	CTD phosphatase activity;hydrolase activity;metal ion binding;phosphoprotein phosphatase activity;protein binding
	

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