Recombinant Human CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) Small Phosphatase-Like, His-tagged

Cat. No. CTDSPL-1922H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CTDSPLprotein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.
Species	Human
Description	CTDSPL,also known as CTD small phosphatase-like protein, preferentially catalyzesthe dephosphorylation of Ser-5 within the tandem 7 residues repeats in theC-terminal domain (CTD) of the largest RNA polymerase II subunit POLR2A.
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT.
Molecular Weight	23.9 kDa(209aa) confirmed by MALDI-TOF
Purity	> 90%by SDS-PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHMKYLLP EVTVLDYGKK CVVIDLDETL VHSSFKPISN ADFIVPVEID GTIHQVYVLKRPHVDEFLQR MGQLFECVLF TASLAKYADP VADLLDRWGV FRARLFRESC VFHRGNYVKD LSRLGRELSKVIIVDNSPAS YIFHPENAVP VQSWFDDMTD TELLDLIPFF EGLSREDDVY SMLHRLCNR

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Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	BMPreceptor signaling; Regulation of cytoplasmic and nuclear SMAD2/3 signaling

GENE INFORMATION

Gene Name	CTDSPL CTD (carboxy-terminaldomain, RNA polymerase II, polypeptide A) small phosphatase-like [Homosapiens]
Official Symbol	CTDSPL
Synonyms	CTDSPL; CTD (carboxy-terminal domain, RNApolymerase II, polypeptide A) small phosphatase-like; PSR1; SCP3; HYA22;RBSP3; C3orf8; CTD small phosphatase-like protein; CTDSP-like;NIF-like protein; small CTD phosphatase 3; NLI-interacting factor 1; smallC-terminal domain phosphatase 3; nuclear LIM interactor-interacting factor 1;RB protein serine phosphatase from chromosome 3; carboxy-terminal domain RNApolymerase II polypeptide A small phosphatase 3; EC 3.1.3.16; chromosome3 open reading frame 8
Gene ID	10217
mRNA Refseq	NM_001891
Protein Refseq	NP_001882
MIM	608592
UniProt ID	O15194
Chromosome	3p21.3

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Location	
Function	hydrolase activity; metal ion binding;molecular function; phosphoprotein phosphatase activity
PDBrendering based on 2hhl.	

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