Recombinant Human CTDSP1, His-tagged

Cat. No. CTDSP1-28022TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CTDSP1 (amino acids 1-260) with an N terminal His tag; 280 amino acids with a predicted MWt 31.2kDa including tag.
Species	Human
Source	E.coli
ProteinLength	260 amino acids
Description	This gene encodes a member of the small C-terminal domain phosphatase (SCP) family of nuclear phosphatases. These proteins play a role in transcriptional regulation through specific dephosphorylation of phosphoserine 5 within tandem heptapeptide repeats of the C-terminal domain of RNA polymerase II. The encoded protein plays a role in neuronal gene silencing in non-neuronal cells, and may also inhibit osteoblast differentiation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Conjugation	HIS
Molecular Weight	31.200kDa inclusive of tags
Tissue specificity	Expression is restricted to non-neuronal tissues. Highest expression in skeletal muscle, spleen, lung and placenta.
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 20mM Tris HCl, 100mM Sodium chloride, 1mM DTT, pH 8
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MDSSAVITQISKEEARGPLR GKGDQKSAAS QKPRSRGILH SLFCCVCRDDGEALPAHSGA PLLVEENGAI PKTPVQYLLP EAKAQDSDKICVVIDLDETL VHSSFKPVNN ADFIIPVEID GVVHQVYVLKRPHVDEFLQR MGELFECVLF TASLAKYADP VADLLDKWGAFRARLFRESC VFHRGNYVKD LSRLGRDLRR VLILDNSPASYVFHPDNAVP VASWFDNMSD TELHDLLPFF EQLSRVDDVYSVLRQPRPGS
Sequence Similarities	Contains 1 FCP1 homology domain.

GENE INFORMATION

Gene Name	CTDSP1 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 [Homo sapiens]
Official Symbol	CTDSP1
Synonyms	CTDSP1; CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1; carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1; NLIIF; nuclear LIM interactor interacting factor; SCP1; small CTD phosphatase 1;

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Gene ID	58190
mRNA Refseq	NM_001206878
Protein Refseq	NP_001193807
MIM	605323
Uniprot ID	Q9GZU7
Chromosome Location	2q35
Pathway	BMP receptor signaling, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Regulation of cytoplasmic and nuclear SMAD2/3 signaling, organism-specific biosystem;
Function	CTD phosphatase activity; hydrolase activity; metal ion binding; phosphoprotein phosphatase activity; protein binding;

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