

# Recombinant Human CTDSP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CTDSP1-1387H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CTDSP1 MS Standard C13 and N15-labeled recombinant protein (NP_067021) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 29.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MDSSAVITQISKEEARGPLRGKGDQKSAASQKPRSRGILHSLFCCVCRDDGEALPA<br>HSGAPLLVEENGAIPKQTPVQYLLPEAKAQDSKICVVIDLDETLVHSSFKPVNNADF<br>IIPVEIDGVVHQVYVLKRPVHDEFLLQRMGELFECVLFTASLAKYADPVADLLDKWGAF<br>RARLFRESCVFHRGNVVKDLSRLGRDLRRVLILDNSPASYVFHPDNAVPPVASWFDN<br>MSDTELHDLLPFPEQLSRVDDVYSVLRQPRPGSTRTRPLEQKLISEEDLAANDILDYK<br>DDDDKV                                                                                                                                                                                                                               |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CTDSP1 CTD small phosphatase 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b> | CTDSP1                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | 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; NLI-interacting factor 3; small C-terminal domain phosphatase 1; nuclear LIM interactor-interacting factor 3; NIF3; NLI-IF; |
| <b>Gene ID</b>         | 58190                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_021198                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_067021                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>             | 605323                                                                                                                                                                                                                                                                                                                                                                                 |

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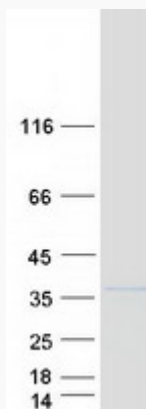
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UniProt ID

Q9GZU7

SDS-PAGE

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