

**CTDSP1 Blocking Peptide (N-term)**  
**Synthetic peptide**  
**Catalog # BP20752a****Specification**

---

**CTDSP1 Blocking Peptide (N-term) - Product Information**Primary Accession [O9GZU7](#)**CTDSP1 Blocking Peptide (N-term) - Additional Information****Gene ID** 58190**Other Names**

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, SCP1

**Target/Specificity**

The synthetic peptide sequence is selected from aa 16-30 of HUMAN CTDSP1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CTDSP1 Blocking Peptide (N-term) - Protein Information****Name** CTDSP1**Synonyms** NIF3, NLIIF, SCP1**Function**

Preferentially catalyzes the dephosphorylation of 'Ser-5' within the tandem 7 residue repeats in the C-terminal domain (CTD) of the largest RNA polymerase II subunit POLR2A. Negatively regulates RNA polymerase II transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation. Recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells.

**Cellular Location**

Nucleus. Note=Colocalizes with RNA polymerase II

**Tissue Location**

Expression is restricted to non-neuronal tissues. Highest expression in skeletal muscle, spleen,

lung and placenta

### **CTDSP1 Blocking Peptide (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **CTDSP1 Blocking Peptide (N-term) - Images**

### **CTDSP1 Blocking Peptide (N-term) - Background**

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. Negatively regulates RNA polymerase II transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation. Recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells.

### **CTDSP1 Blocking Peptide (N-term) - References**

Marquet S.,et al.Mamm. Genome 11:755-762(2000).  
Yeo M.,et al.J. Biol. Chem. 278:26078-26085(2003).  
Li W.B.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.  
Hillier L.W.,et al.Nature 434:724-731(2005).  
Yeo M.,et al.Science 307:596-600(2005).