

**CTDSP1 Blocking Peptide (Center)**

Synthetic peptide

Catalog # BP20906a

**Specification**

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**CTDSP1 Blocking Peptide (Center) - Product Information**

Primary Accession

[O9GZU7](#)

Other Accession

[P58466](#)**CTDSP1 Blocking Peptide (Center) - 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 96-110 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 (Center) - 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 (Center) - Protocols**

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

- [Blocking Peptides](#)

### **CTDSP1 Blocking Peptide (Center) - Images**

### **CTDSP1 Blocking Peptide (Center) - Background**

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### **CTDSP1 Blocking Peptide (Center) - References**

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Hillier L.W.,et al.Nature 434:724-731(2005).  
Yeo M.,et al.Science 307:596-600(2005).