

# Active Recombinant Human Spondin 1, Extracellular Matrix Protein, His-tagged

Cat. No. SPON1-408H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human SPON1 protein was expressed in Murine myeloma cell line, NS0-derived, with a C-terminal 6-His tag. Phe29-Cys807.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	29-807 a.a.
<b>Description</b>	Human SPON1 is synthesized as an 807 amino acid (aa) precursor that contains a 28 aa signal sequence and a 779 aa mature region. The mature region includes an N-terminal reelin-like domain (aa 1-200), a centrally placed SPON1 type segment (aa 201-440), and six C-terminal class 2 thrombospondin type I repeats.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>N-terminal Sequence</b>	Phe29
<b>Molecular Weight</b>	88.9 kDa
<b>Activity</b>	Measured by its ability to enhance neurite outgrowth of dissociated E13 chick embryonic dorsal root ganglia (DRG) neurons. Able to significantly enhance neurite outgrowth when immobilized as a 3 µL droplet containing 100 ng on a nitrocellulose-coated microplate.

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<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	Reconstitute at 100µg/mL in sterile PBS.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	SPON1 spondin 1, extracellular matrix protein [ Homo sapiens ]
<b>Official Symbol</b>	SPON1
<b>Synonyms</b>	SPON1; spondin1, extracellular matrix protein; KIAA0762; MGC10724; f-spondin; spondin-1; VSGP/F-spondin; OTTHUMP00000235296; spondin 1, (f-spondin) extracellular matrix protein; vascular smooth muscle cell growth-promoting factor; VSGP
<b>Gene ID</b>	10418
<b>mRNA Refseq</b>	NM_006108
<b>Protein Refseq</b>	NP_006099
<b>MIM</b>	604989
<b>UniProt ID</b>	Q9HCB6

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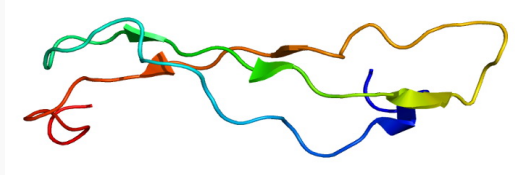
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<b>Chromosome Location</b>	11p15.2
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<b>Function</b>	protein binding
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**PDBrendering based on 1szl.**



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