

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

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

SPECIFICATION

Product Overview	Recombinant human SPON1 protein was expressed in Murine myeloma cell line, NS0-derived, with a C-terminal 6-His tag. Phe29-Cys807.
Species	Human
Source	Mammalian Cells
Protein Length	29-807 a.a.
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Phe29
Molecular Weight	88.9 kDa
Activity	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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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Storage	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

Gene Name	SPON1 spondin 1, extracellular matrix protein [Homo sapiens]
Official Symbol	SPON1
Synonyms	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
Gene ID	10418
mRNA Refseq	NM_006108
Protein Refseq	NP_006099
MIM	604989
UniProt ID	Q9HCB6

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**Chromosome
Location** 11p15.2

Function protein binding

**PDBrendering based
on 1szl.**



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