

## Active Recombinant Human NTN1 Protein, FLAG-tagged

Cat. No. NTN1-22H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human netrin-1 (aa 25-604) protein fused with C-terminus FLAG-tag was expressed in HEK293 cell.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	25-604 a.a.
<b>Description</b>	Netrin-1 controls guidance of CNS commissural axons and peripheral motor axons. Its association with either DCC or some UNC5 receptors will lead to axon attraction or repulsion, respectively. It also serve as a survival factor via its association with its receptors which prevent the initiation of apoptosis. Netrin-1 is also Involved in tumorigenesis by regulating apoptosis. Netrin-1 promotes atherosclerosis by retaining macrophages in the artery wall. Netrin-1 also governs induced pluripotent stem cell (iPS) formation and improves reprogramming efficiency of human and mouse somatic cells by limiting apoptosis mediated by Netrin-1 receptors DCC or UNC5b.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Induces pluripotent stem cell (iPS) formation and improves reprogramming efficiency of human and mouse somatic cells by inhibiting apoptosis mediated by the receptors DCC or UNC5B (at 150 ng /mL). Induces axon outgrowth.
<b>Molecular Mass</b>	~80 kDa

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<b>Endotoxin</b>	<0.01EU/μg purified protein (LAL test; Lonza).
<b>Purity</b>	≥95% (SDS-PAGE)
<b>Stability</b>	Stable for at least 6 months after receipt when stored at -20 centigrade.
<b>Storage</b>	Short Term Storage at +4 centigrade, Long Term Storage at -20 centigrade.
<b>Concentration</b>	10 μg vial: 0.1mg/mL after reconstitution. 100 μg vial: 1mg/mL after reconstitution.
<b>Storage Buffer</b>	Contains PBS plus protein stabilizer. No BSA included. The protein stabilizer shows no interference with protein activity.
<b>Reconstitution</b>	Reconstitute with 100 μL sterile distilled water.
<b>Handling</b>	After reconstitution, prepare aliquots and store at -20 centigrade. Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions.

## GENE INFORMATION

<b>Gene Name</b>	NTN1 netrin 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	NTN1
<b>Synonyms</b>	NTN1; netrin 1; NTN1L; epididymis tissue protein Li 131P; netrin 1, mouse, homolog of
<b>Gene ID</b>	9423

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<b>mRNA Refseq</b>	NM_004822
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<b>Protein Refseq</b>	NP_004813
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<b>MIM</b>	601614
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<b>UniProt ID</b>	O95631
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