

Active Recombinant Human NTN1 Protein, FLAG-tagged

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

SPECIFICATION

Product Overview	Recombinant Human netrin-1 (aa 25-604) protein fused with C-terminus FLAG-tag was expressed in HEK293 cell.
Species	Human
Source	HEK293
ProteinLength	25-604 a.a.
Description	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.
Form	Lyophilized
Bio-activity	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.
Molecular Mass	~80 kDa

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

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

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mRNA Refseq	NM_004822
Protein Refseq	NP_004813
MIM	601614
UniProt ID	O95631

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