



## Synonym

Netrin-1,NTN1,NTN1L,Netrin1,netrin 1

## Source

Human Netrin-1, His Tag(NE1-H52H3) is expressed from human 293 cells (HEK293). It contains AA Val 22 - Ala 604 (Accession # [O95631-1](#)).

Predicted N-terminus: Val 22

## Molecular Characterization

Netrin-1(Val 22 - Ala 604)  
O95631-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 67.5 kDa. The protein migrates as 80-100 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with NaCl with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

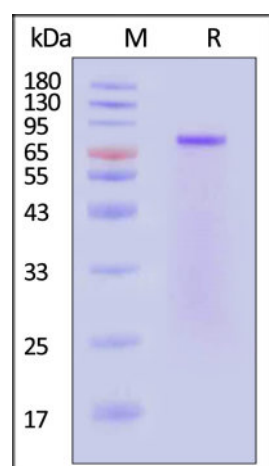
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE

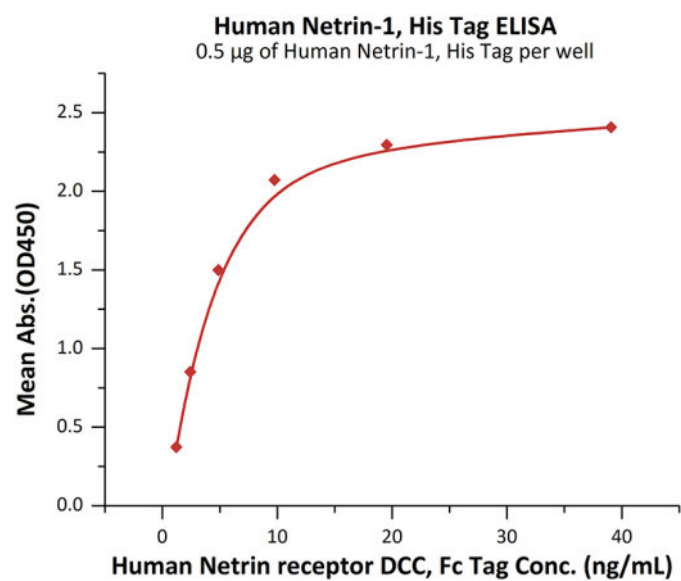


Human Netrin-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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Immobilized Human Netrin-1, His Tag (Cat. No. NE1-H52H3) at 5 µg/mL (100 µL/well) can bind Human Netrin receptor DCC, Fc Tag (Cat. No. NEC-H5254) with a linear range of 1-10 ng/mL (QC tested).

## Background

Netrins control 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. Binding to UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion. Involved in dorsal root ganglion axon projection towards the spinal cord. It also serves as a survival factor via its association with its receptors which prevent the initiation of apoptosis. Involved in tumorigenesis by regulating apoptosis.

## Clinical and Translational Updates

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