

## Recombinant Human NRTN protein

Cat. No. NRTN-29535TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NRTN protein was expressed in Escherichia coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	102
<b>Description</b>	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein signals through the RET receptor tyrosine kinase and a GPI-linked coreceptor, and promotes survival of neuronal populations. A neurturin mutation has been described in a family with Hirschsprung Disease.
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated solution in 30 mM Citrate Sodium, pH 4.2, 400 mM NaCl, with 0.02 % Tween-20.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The biologically active as determined by its binding ability in a functional ELISA.
<b>Molecular Mass</b>	Approximately 23.4 kDa, a homodimeric protein consisting of two 102 amino acid non-glycosylated polypeptide chains.
<b>AA Sequence</b>	ARLGARPCGLRELEVRVSELGLGYASDETFLFRYCAGACEAAARVYDLGLRRLRQR RRLRRERVRAQPCCRPTAYEDEVSFLDAHSRYHTVHEL SARECACV

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<b>Endotoxin</b>	Less than 1 EU/μg of rHuNeurturin as determined by LAL method.
<b>Purity</b>	>96% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 0.5 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

<b>Gene Name</b>	NRTN
<b>Official Symbol</b>	NRTN
<b>Synonyms</b>	NRTN; neurturin; NTN;
<b>Gene ID</b>	4902
<b>mRNA Refseq</b>	NM_004558
<b>Protein Refseq</b>	NP_004549
<b>MIM</b>	602018
<b>UniProt ID</b>	Q99748

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