

Recombinant Human NRTN protein

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

SPECIFICATION

Product Overview	Recombinant Human NRTN protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	102
Description	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.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 30 mM Citrate Sodium, pH 4.2, 400 mM NaCl, with 0.02 % Tween-20.
Bio-activity	Fully biologically active when compared to standard. The biologically active as determined by its binding ability in a functional ELISA.
Molecular Mass	Approximately 23.4 kDa, a homodimeric protein consisting of two 102 amino acid non-glycosylated polypeptide chains.
AA Sequence	ARLGARPCGLRELEVRVSELGLGYASDETVLFRYCAGACEAAARVYDLGLRRLRQR RRLRRERVRAQPCCRPTAYEDEVSFLDAHSRYHTVHEL SARECACV

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Endotoxin	Less than 1 EU/μg of rHuNeurturin as determined by LAL method.
Purity	>96% by SDS-PAGE and HPLC analysis.
Storage	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.
Reconstitution	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

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

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