

Neurturin Active Protein | NRTN active protein

Human Neurturin

CATALOG # AAA79278	HOST E Coli	REACTIVITY Human
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PRODUCT SYNONYMS

Neurturin; Human Neurturin; Recombinant Human Neurturin; NRTN active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE and HPLC analysis
Form/Format	Lyophilized from 10 mM Sodium Citrate, pH 4.0
Sequence	ARLGARPCGL RELEVRVSEL GLGYASDETV LFRYCAGACE AAARVYDLGL RRLRQRRRLR RERVRAQPCC RPTAYEDEVS FLDAHSRYHT VHEL SARECA CV
Sequence Length	197
Structural Information	disulphide-linked homodimer
Endotoxin Level	< 0.1 ng/ug per ug of protein
Biological Activity	Human Neurturin at a concentration of 100 ng/ml will support the survival of 65% of newborn rat sympathetic neurons.
Length (aa)	204
Stability	The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C
Reconstitution	Centrifuge vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2°C to 8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation and Storage	Store at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

ADDITIONAL INFORMATION

Related Product Information for NRTN active protein	Neurturin is a disulfide-linked homodimer neurotrophic factor structurally related to GDNF, Artemin, and Persephin. These proteins belong to the cysteine-knot family of growth factors that assume stable dimeric structures. Neurturin signals through a multicomponent receptor system, composed of RET and one of four GFR alpha (alpha1-alpha4) receptors. Neurturin promotes the development and survival of sympathetic and sensory neurons by signaling through a receptor system composed of RET and GFRalpha2. The functional form of human Neurturin is a disulfide-linked homodimer, of two 11.8 kDa polypeptide monomers (204 total amino acid residues). Each monomer contains seven conserved cysteine residues, one of which (Cys 69) is used for inter-chain disulfide bridging and the others are involved in intramolecular ring formation known as the cysteine knot configuration.
Product Categories/Family for NRTN active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758826
NCBI GeneID	4902
NCBI Accession #	NP_004549.1
NCBI GenBank Nucleotide #	NM_004558.3
UniProt Accession #	Q99748; B2RPE8
Molecular Weight	11.8 kDa
NCBI Official Full Name	neurturin preproprotein
NCBI Official Synonym Full Names	neurturin
NCBI Official Symbol	NRTN
NCBI Official Synonym Symbols	NTN
NCBI Protein Information	neurturin; prepro-neurturin
UniProt Protein Name	Neurturin
UniProt Gene Name	NRTN
UniProt Entry Name	NRTN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/neurturin/79278>