

Recombinant Human Neurotrophin 3

Cat. No. NTF3-3621H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human proNT-3 produced in E.coli is a single, non-glycosylated, polypeptide chain containing 239 amino acids and having a molecular mass of 27.4 kDa.
Species	Human
Source	E.coli
Description	The precursor form of neurotrophin-3 (proNT-3) functions via p75NTR and sortilin and induces neuronal apoptosis. On the contrary, mature NT-3 interacts with Trk receptors and selectively promotes the survival, growth and differentiation of neurons. As axon retrograde transport is crucial for neurotrophin signaling, proNT-3 also plays an important role in the mechanism of retrograde signaling.
Biological Activity	As measured by its binding ability in a functional ELISA, immobilized rHuL-1F10 at 1 µg/ml (100 µl/well) can bind rHuL-1 Rrp2/Fc Chimera with a linear range of 0.15~5 µg/ml.
Purity	Greater than 95% as determined by (a) Analysis by RP-HPLC; (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.
Amino-Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Asn-Asn-Met-Asp-Gln.
Endotoxin	Less than

 Tel: 1-631-559-9269 1-516-512-3133

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	0.1ng/μg (1.0EU/μg) of rHuproNT-3 as determined by LAL test.
Form	The protein was lyophilized from a concentrated (1mg/ml) solution in 20mM PB, pH 8.0, 300mM NaCl buffer.
Reconstitution	It is recommended to reconstitute the lyophilized rHuproNT-3 in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized rHuproNT-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuproNT-3 should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	NTF3 neurotrophin 3 [Homo sapiens]
Official Symbol	NTF3
Synonyms	NTF3; NT3; HDNF; NGF2; NGF-2; MGC129711; NT-3; OTTHUMP00000239132; OTTHUMP00000239133; neurotrophic factor; nerve growth factor 2; neurotrophin 3; Nerve growth factor 2; Neurotrophic factor; neurotrophin-3
Gene ID	4908
mRNA Refseq	NM_002527
Protein Refseq	NP_002518
MIM	162660

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UniProt ID	P20783
Chromosome Location	12p13
Function	growth factor activity; nerve growth factor binding; neurotrophin receptor binding; protein binding; receptor binding
	