

Neurotrophin-3 Active Protein | NT 3 active protein

Recombinant Human Neurotrophin-3

CATALOG #
AAA38136

HOST
E Coli

PRODUCT SYNONYMS

Neurotrophin-3; Recombinant Human Neurotrophin-3; NT 3 Human; Neurotrophin-3 Human Recombinant; Neurotrophic factor; Nerve growth factor-2; NGF-2; HDNF; NT-3; NT 3 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	YAEHKSHRGE YSVCDSESLW VTDKSSAIDI RGHQVTVLGE IKTGNSPVKQ YFYETRCKEA RPVKNGCRGI DDKHWSQCK TSQTYVRALT SENNKLVGWR WIRIDTSCVC ALSRKIGRT
Sequence Length	270
Solubility	It is recommended to reconstitute the lyophilized Neurotrophin-3 in sterile 18M Omega -cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods:1. UV spectroscopy at 280 nm using the absorbency value of 2.165 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of NT-3 as a Reference Standard.
Biological Activity	The ED ₅₀ as determined by the dose-dependant induction of choline acetyl transferase in rat basal forebrain primary septal culture was found between 20-50ng/ml, corresponding to a Specific Activity of 20,000-50,000IU/mg.
Preparation and Storage	Lyophilized NGF2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution NGF-2 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for NT 3 active protein	Description: Neurotrophin-3 Human Recombinant produced in E Coli is a non-glycosylated and non-covalently linked homodimer, containing 2x119 amino acid chains, having a total Mw of 27.2 kDa.The NT-3 is purified by proprietary chromatographic techniques. Introduction: NT3 a member of the neurotrophin family, that controls survival and differentiation of mammalian neurons. This protein is closely related to both nerve growth factor and brain-derived neurotrophic factor. It may be involved in the maintenance of the adult nervous system, and may affect development of neurons in the embryo when it is expressed in human placenta. NTF3-deficient mice generated by gene targeting display severe movement defects of the limbs. The mature peptide of this protein is identical in all mammals examined including human, pig, rat and mouse.
Product Categories/Family for NT 3 active protein	Cytokines and Growth Factors; Neurotrophins

NCBI AND UNIPROT INFORMATION

NCBI GI #	156630995
NCBI GeneID	4908
NCBI Accession #	NP_001096124.1
NCBI GenBank Nucleotide #	NM_001102654.1
UniProt Accession #	P20783; Q6FH50; B7Z1T5
Molecular Weight	30,800 Da
NCBI Official Full Name	neurotrophin-3 isoform 1 preproprotein
NCBI Official Synonym Full Names	neurotrophin 3
NCBI Official Symbol	NTF3
NCBI Official Synonym Symbols	NT3; HDNF; NGF2; NT-3; NGF-2
NCBI Protein Information	neurotrophin-3; nerve growth factor 2; neurotrophic factor
UniProt Protein Name	Neurotrophin-3
UniProt Gene Name	NTF3
UniProt Synonym Gene Names	NT-3; NGF-2
UniProt Entry Name	NTF3_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://www.aaabiotech.com/e-coli-nt-3-active-protein/neurotrophin-3/38136>