

NT 3 Human

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.

Synonyms:Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF, NT-3.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:YAEHKSHRGE YSVCDSSESLW VTDKSSAIDI RGHQVTVLGE
IKTGNSPVKQ YFYETRCKEA RPKVNGCRGI DDKHWNSQCK TSQTYVRALT SENNKLVGWR
WIRIDTSCVC ALSRKIGRT.

Purity:Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

Stability:

Lyophilized NGF2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NGF-2 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 prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Neurotrophin-3 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

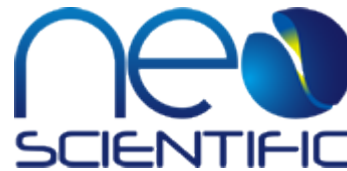
NT3 a member of the neurotrophin family, that controls survival and differentiation of mammalian neurons. This protein is closely related to both nerve growth factor and brain-derived neurotrophic factor. It may be involved in the maintenance of the adult nervous system, and may affect development of 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.

Biological Activity:

The ED50 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.

References:

www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom



1. Title: Generation of Dopamine Neurons with Improved Cell Survival and Phenotype Maintenance Using a Degradation-Resistant Nurr1 Mutant. Publication: Article first published online: 11 JUN

2009 DOI: 10.1002/stem.146 Copyright © 2009 AlphaMed

Press.Link: <http://onlinelibrary.wiley.com/doi/10.1002/stem.146/full> 2. Title: Mash1 and Neurogenin 2 Enhance Survival and Differentiation of Neural Precursor Cells After Transplantation to Rat Brains via Distinct Modes of Action. Publication: Received 22 May 2008; Accepted 8 August 2008; Published online 9 September 2008. Molecular Therapy (2008) 16 11, 1873-1882

doi:10.1038/mt.2008.189 Link: <http://www.nature.com/mt/journal/v16/n11/full/mt2008189a.html>

Title: TrkA Receptor Hot Spots for Binding of NT-3 as a Heterologous Ligand*. Publication: First Published on April 17, 2007, doi:10.1074/jbc.M701996200 June 8, 2007 The Journal of Biological Chemistry, 282, 16754-16763. Link: <http://www.jbc.org/content/282/23/16754.full.pdf+html>

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