

Recombinant Human Neurotrophin-3 (rh NT-3)

Synonyms: Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF

Introduction: NT-3 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.

Description: Neurotrophin-3 Human Recombinant produced in E.Coli is a non-glycosylated and non-covalently linked homodimer, containing 2x120 amino acid chains, having a total Mw of 27.5kDa. The NT-3 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from 0.1% TFA
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh NT-3 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh NT-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh NT-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 prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.

Amino Acid Sequence: MYAEHKSHRGE YSVCDSSESLW VTDKSSAIDI RGHQVTVLGE IKTGNPVGKQ YFYETRCKEA RPVKNGCRGI DDKHWNSQCK TSQTYVRALT SENNKLVGWR WIRIDTSCVC ALSRKIGRT.

Biological Activity: The ED₅₀ as determined by the dose-dependant proliferation of neuroblastoma cell line expressing BR6 is 3.49 ng/ml.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11343332
<i>medium</i>	10 µg	Cat.N°	11343333

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