

rHuNT-3

rec. Human Neurotrophin-3 from *E.coli*

Product	Cat#	Package size
rHuNT-3 - rec. Human Neurotrophin-3	C6056.0002	2µg
rHuNT-3 - rec. Human Neurotrophin-3	C6056.0002	10µg
rHuNT-3 - rec. Human Neurotrophin-3	C6056.1000	1mg

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

Product description

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.

Recombinant Neurotrophin-3 is produced in *E.Coli* as a non-glycosylated and non-covalently linked homodimer polypeptide of 2x119 amino acids (238 amino acids in total) and a molecular mass of 27.2 kDa.

Source: *Escherichia coli*

Biological activity

The ED50 as determined by the dose-dependent proliferation of C6 cells and is 3.6-5.4µg/mL.

Purity: Greater than 97% by SDS-PAGE and HPLC analysis.

Amino acid sequence

YAEHKSHRGE YSVCDSESLW VTDKSSAIDI RGHQVTVLGE IKTGNPQVKQ YFYETRCKEA RPKVNGCRGI DDKHWNSQCK TSQTYVRALT SENNKLVGWR WIRIDTSCVC ALSRKIGRT.

Formulation: Lyophilized from 0.02% TFA.

Solubility / Reconstitution

It is recommended to briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute the lyophilized Neurotrophin-3 in sterile water not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Neurotrophin-3 although stable at room temperature for 3 weeks, should be stored desiccated at -20°C. Reconstituted Neurotrophin-3 is best stored refrigerated at +2°C to +8°C between 2-7 days and at -20°C for long term storage. For long term storage it is recommended to add a carrier protein (e.g., 0.1% HSA or BSA).

Please prevent from repeated freeze-thaw cycles.

Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.