

## NT 3 Mouse

**Description:**Neurotrophin-3 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 119 amino acids and having a molecular mass of 13.6kDa. The NT-3 is purified by proprietary chromatographic techniques.

**Catalog #:**CYPS-695

For research use only.

**Synonyms:**Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF, NT-3, Neurotrophin-3, Ntf3, Ntf-3, AI316846, AI835689, Nt3.

**Source:**Escherichia Coli.

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

**Amino Acid Sequence:**YAEHKSHRGE YSVCDSESLW VTDKSSAIDI RGHQVTVLGE  
IKTGNSPVKQ YFYETRCKEA RPVKNGCRGI DDKHWNSQCK TSQTYVRALT SENNKLVGWR  
WIRIDTSCVC ALSRKIGRT.

**Purity:**Greater than 97.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

Lyophilized from 0.02% TFA.

**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 activity, as determined by the dose-dependent proliferation of BaF3 cells transfected with the TrkB receptor, is typically in the range of 1-10 ng/ml, corresponding to a specific activity of 100,000-1,000,000 units/mg.

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