
Product Data Sheet

Product Name: NT 3 Mouse

Cat. No.: GP20782

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Neurotrophic factor; Nerve growth factor-2; NGF-2; HDNF; NT-3; Neurotrophin-3; Ntf3; Ntf-3; AI316846; AI835689; Nt3.		
Amino Acid Sequence	YAEHKSHRGE YSVCDSESLW VTDKSSAIDI RGHQVTVLGE IKTGNPVKQ YFYETRCKEA RPVKNGCRGI DDKHWNSQCK TSQTYVRALT SENNKLVGWR WIRIDTSCVC ALSRKIGRT.		
Solubility	It is recommended to reconstitute the lyophilized Neurotrophin-3 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from 0.02% TFA.		

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

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.

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