

Neurotrophin 3 Reference standard

Cat. No. NTF3-170H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The preparation is intended as a reference standard for the biological activity of neurotrophin-3 in in vitro bioassays. This Standard was prepared using commercial, therapeutic, recombinant, tissue plasminogen activator (Alteplase), expressed and purified from CHO cell culture in a predominantly single chain form.
Species	Human
Source	CHO
Enzyme Unit	The Research reagent has been assigned a potency of 5000 units of neurotrophin-3 per ampoule.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. The entire contents of each ampoule should be completely dissolved in a known volume of suitable solvent, for example phosphate buffer. It is recommended that, when possible, buffer containing carrier protein should be used to minimize loss by surface adsorption. The solvent should be compatible with the assay system used. Freezing and reuse of reconstituted material should be avoided unless this can be validated for the particular laboratory, storage and assay conditions. Repeated freezing and thawing should be avoided.
Notes	This preparation is not for administration to humans. The neurotrophin-3 is recombinant DNA-derived. The formulation contains material, human serum albumin, of human origin. The material of human origin has been tested and found negative for

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HBsAg, anti-HIV and anti- HCV. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

Stability

Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the label. Accelerated degradation studies have indicated that this material is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

Storage

The ampoules are shipped at ambient temperature. Unopened ampoules should be stored at -20 °C in the dark. Freezing and reuse of reconstituted material should be avoided unless this can be validated for the particular laboratory, storage and assay conditions. Repeated freezing and thawing should be avoided. The ampoules do not contain bacteriostat and solutions of the ampouled material should not be assumed to be sterile. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name NTF3 neurotrophin 3 [Homo sapiens];

Official Symbol NTF3

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Synonyms	NTF3; neurotrophin 3; neurotrophin-3; NGF2; NT-3; neurotrophic factor; nerve growth factor 2; NT3; HDNF; NGF-2; MGC129711;
Gene ID	4908
mRNA Refseq	NM_001102654
Protein Refseq	NP_001096124
MIM	162660
UniProt ID	P20783
Chromosome Location	12p13
Pathway	MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Neurotrophic factor-mediated Trk receptor signaling, organism-specific biosystem; Neurotrophin signaling pathway, organism-specific biosystem; Neurotrophin signaling pathway, conserved biosystem; Trk receptor signaling mediated by the MAPK pathway, organism-specific biosystem; p75(NTR)-mediated signaling, organism-specific biosystem;
Function	growth factor activity; nerve growth factor binding; neurotrophin receptor binding; receptor binding;