

## Human Nerve Growth Factor(rDNA derived) Reference standard

Cat. No. NGF-128H Lot. No. (See product label)

### SPECIFICATION

**Species**

Human

**Enzyme Unit**

The assigned potency of the Reference Reagent for NGF is 10 000 units per ampoule.

**Usage**

No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. The Reference Reagent is intended for calibration of local standards. For all practical purposes, each ampoule contains the same quantity of NGF. The entire contents of each ampoule should be completely dissolved in a known volume of suitable solvent. It is recommended that, when possible, buffer containing carrier protein should be used to minimize loss by surface adsorption.

**Notes**

This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. 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 laboratory's 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

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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is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced.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. For economy of use, it is recommended that the reconstituted solution be subdivided into several small containers and stored at, or below, -40 °C . 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

<b>Gene Name</b>	NGF nerve growth factor (beta polypeptide) [ Homo sapiens ];
<b>Official Symbol</b>	NGF
<b>Synonyms</b>	NGF; nerve growth factor (beta polypeptide); NGFB; beta-nerve growth factor; nerve growth factor, beta subunit; HSN5; Beta-NGF; MGC161426; MGC161428;
<b>Gene ID</b>	4803
<b>mRNA Refseq</b>	NM_002506
<b>Protein Refseq</b>	NP_002497

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<b>MIM</b>	162030
<b>UniProt ID</b>	P01138
<b>Chromosome Location</b>	1p13.1
<b>Pathway</b>	ARMS-mediated activation, organism-specific biosystem; Activation of TRKA receptors, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Axonal growth stimulation, organism-specific biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; Ceramide signalling, organism-specific biosystem;
<b>Function</b>	growth factor activity; nerve growth factor receptor binding; receptor signaling protein activity;

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