

## Active Recombinant Human NGF, MIgG2a Fc-tagged

Cat. No. NGF-002H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of human NGF(AAI26149.1)(Met1-Ala241) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	1-241 a.a.
<b>Description</b>	This gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. This protein has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene's expression is associated with allergic rhinitis.
<b>Form</b>	Lyophilized from 0.2µm-filtered solution in PBS.
<b>Bio-activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
<b>Molecular Mass</b>	40KDa (monomer)
<b>AA Sequence</b>	Met1-Ala241

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="" test=""="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## 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
<b>MIM</b>	162030
<b>UniProt ID</b>	P01138
<b>Chromosome Location</b>	1p13.1

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**Pathway**

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;

**Function**

growth factor activity; nerve growth factor receptor binding; receptor signaling protein activity;

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