

## Product datasheet for **TP720048XL**

### NGF (NM\_002506) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human nerve growth factor (beta polypeptide) (NGF)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Ser122-Ala241
Tag:	tag free
Predicted MW:	13.5 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Bioactivity:	ED50 is less than 1.0 ng/ml as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells. Specific Activity is greater than 1 x 10 <sup>6</sup> IU/mg.
Reconstitution Method:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_002497</a>
Locus ID:	4803
UniProt ID:	<a href="#">P01138</a>
RefSeq Size:	1052
Cytogenetics:	1p13.2
RefSeq ORF:	723
Synonyms:	Beta-NGF; HSN5; NGFB



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**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Apoptosis, MAPK signaling pathway, Neurotrophin signaling pathway