

Beta-nerve growth factor/NGFB Recombinant Protein | NGF recombinant protein

Recombinant Human Beta-nerve growth factor/NGFB Protein

CATALOG # AAA283356	HOST HEK293 cells
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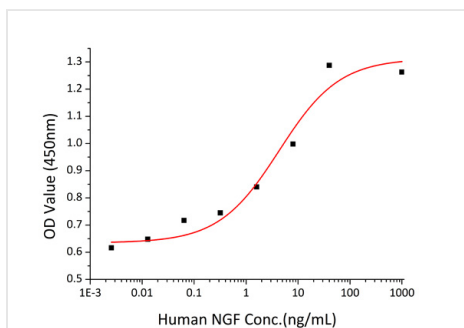
PRODUCT SYNONYMS

Beta-nerve growth factor/NGFB; Recombinant Human Beta-nerve growth factor/NGFB Protein; NGFB; HSN5; Beta-NGF; NGF recombinant protein

PRODUCT SPECIFICATIONS

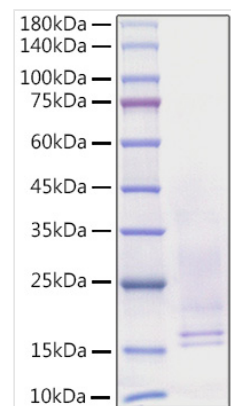
Host	HEK293 cells
Purity/Purification	>92% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Sequence	EPHSESNVPA GHTIPQAHWT KLQHSLDTAL RRARSAPAAA IAARVAGQTR NITVDPRLFK KRRLRSPRVL FSTQPPREAA DTQDLDFEVG GAAPFNRTHR SKRSSSHPIF HRGEFSVCDS VSVWVGDKTT ATDIKGKEVM VLGEVNINNS VFKQYFFETK CRDPNPVDSG CRGIDSKHWN SYCTTTHTFV KALTMDBGKQA AWRFRIDTA CVCVLSRKAV RRA
Species	Human
Tag	C-His
Endotoxin	<0.01EU/ug
Bio-Activity	Recombinant Human NGF stimulates cell proliferation of the TF?1 human erythroleukemic cells. The ED ₅₀ for this effect is 2.2-8.6ng/mL, corresponding to a specific activity of 1.16×10 ⁵ -4.55×10 ⁵ units/mg.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Human NGF stimulates cell proliferation of the TF?1 human erythroleukemic cells. The ED₅₀ for this effect is 2.2-8.6 ng/mL, corresponding to a specific activity of 1.16×10⁵-4.55×10⁵ units/mg.



SDS-PAGE

Recombinant Human Beta-NGF/NGF/NGFB Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-20 kDa.

ADDITIONAL INFORMATION

Related Product Information for NGF recombinant protein	NGF is a well-characterized neurotropic protein that plays a critical role in the development of sympathetic and some sensory neurons in the peripheral nervous system. In addition, NGF can also act in the central nervous system as a trophic factor for basal forebrain cholinergic neurons. NGF has also been shown to have biological effects on non-neuronal tissues. NGF is mitogenic for a factor dependent human erythroleukemic cell line, TF-1. NGF has been found to increase the number of mast cells in neonatal rats and to induce histamine release from peritoneal mast cells. NGF will enhance histamine release and strongly modulate the formation of lipid mediators by basophils in response to various stimuli. NGF will also induce the growth and differentiation of human B lymphocytes as well as suppress apoptosis of murine peritoneal neutrophils. These results, taken together, suggest that NGF is a pleiotropic cytokine which, in addition to its neurotropic activities, may have an important role in the regulation of the immune system.
Product Categories/Family for NGF recombinant protein	Cytokines & Cytokine receptors; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	90110037
NCBI GeneID	4803
UniProt Accession #	P01138; Q6FHA0; Q96P60; Q9P2Q8; Q9UKL8; A1A4E5
UniProt Protein Name	Beta-nerve growth factor
UniProt Gene Name	NGF
UniProt Synonym Gene Names	NGFB; Beta-NGF
UniProt Entry Name	NGF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.