

NGF recombinant protein

NGF Protein, Mouse, Recombinant

CATALOG #
AAA257472

HOST
CHO Stable Cells

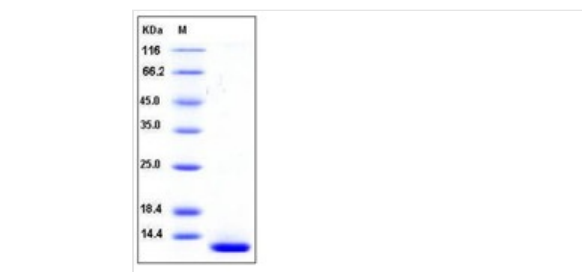
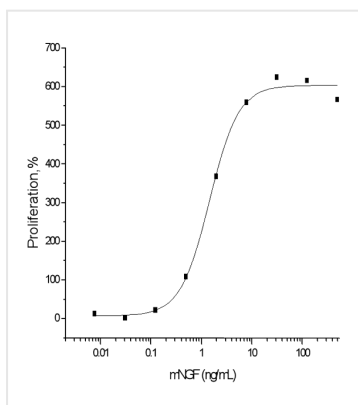
PRODUCT SYNONYMS

NGF; NGF Protein; Mouse; Recombinant; Mouse beta-NGF/Beta-NGF Protein; nerve growth factor (beta polypeptide); Ngfb Protein; NGF recombinant protein

PRODUCT SPECIFICATIONS

Host	CHO Stable Cells
Purity/Purification	>96 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM NaAc, 150mM NaCl, pH5.5 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	121aa
Sequence	Ser122-Gly 241
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Met
Protein Construction	JA DNA sequence encoding the mature form of mouse NGF (NP_001106168.1) (Ser 122-Gly 241) was expressed, with an initial Met at the C-terminus
Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 1-8ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data

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ADDITIONAL INFORMATION

Related Product Information for NGF recombinant protein	Nerve growth factor (NGF) is important for the development and maintenance of the sympathetic and sensory nervous systems. NGF protein was identified as a large complex consisting of three non-covalently linked subunits, alpha, beta, and gamma, among which, the beta subunit, called beta-NGF (beta-NGF), was demonstrated to exhibits the growth-stimulating activity of NGF protein. NGFB/beta-NGF gene is a member of the NGF-beta family and encodes a secreted protein that homodimerizes and is incorporated into a larger complex. NGF protein acts via at least two receptors on the surface of cells (TrkA and p75 receptors) to regulate neuronal survival, promote neurite outgrowth, and up-regulate certain neuronal functions such as mediation of pain and inflammation. Also, previous studies indicated that NGF may also have an important role in the regulation of the immune system.
Product Categories/Family for NGF recombinant protein	Death Receptor Signaling
References	Castellanos MR, et al. (2003) Evaluation of the neurorestorative effects of the murine beta-nerve growth factor infusions in old rat with cognitive deficit. Biochem Biophys Res Commun. 312(4): 867-72.Wang TH, et al. (2008) Effects of pcDNA3-beta-NGF gene-modified BMSC on the rat model of Parkinson's disease. J Mol Neurosci. 35(2): 161-9.Perrard MH, et al. (2009) Redundancy of the effect of TGFbeta1 and beta-NGF on the second meiotic division of rat spermatocytes. Microsc Res Tech. 72(8): 596-602.

NCBI AND UNIPROT INFORMATION

NCBI GI #	162951831
NCBI GeneID	18049
NCBI Accession #	NP_001106168.1
NCBI GenBank Nucleotide #	NM_001112698.2
UniProt Accession #	P01139; Q63864; Q6LDB7
Molecular Weight	27,077 Da
NCBI Official Full Name	beta-nerve growth factor isoform B
NCBI Official Synonym Full Names	nerve growth factor
NCBI Official Symbol	Ngf
NCBI Official Synonym Symbols	Ngfb
NCBI Protein Information	beta-nerve growth factor; beta-NGF; nerve growth factor, beta
UniProt Protein Name	Beta-nerve growth factor
UniProt Gene Name	Ngf
UniProt Synonym Gene Names	Ngfb; Beta-NGF
UniProt Entry Name	NGF_MOUSE

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.