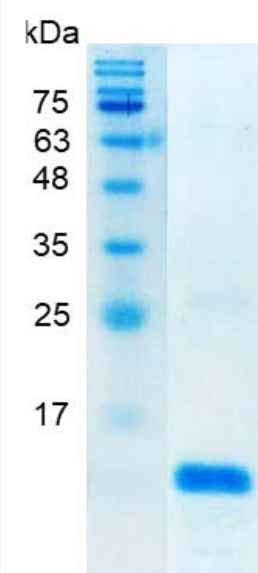
Bioactive

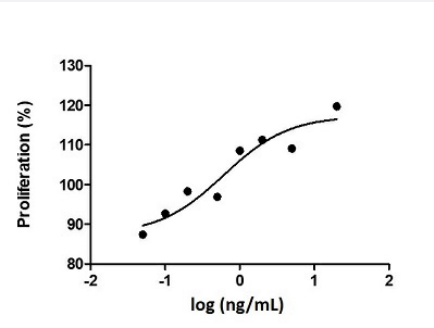
NGF (Human) Recombinant Protein

Catalog # P7817 Size 20 ug

Applications



SDS-PAGE analysis of NGF (Human) Recombinant Protein.



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human NGF recombinant protein with polyhistidine tag at the C-terminus expressed in *Escherichia coli*.
Sequence	MSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNP VDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVRRA with polyhistidine tag at the C-terminus.
Host	Escherichia coli

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Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ni-NTA chromatography
Purity	> 98% as determined by SDS-PAGE.
Endotoxin Level	< 0.1 EU/ ug of protein by the LAL method.
Activity	ED_{50} < 0.7 ng/mL, Measured by the induction of TF-1 cells proliferation. The specific activity of recombinant human beta-NGF is > 1 x 10^6 IU/mg.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of NGF (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. Reconstitute the lyophilized powder in ddH_2O to 100 ug/mL.
Storage Instruction	Lyophilized protein should be stored at -20°C. Protein aliquots should be stored at-20°C to -80°C. This product is stable for one year. Avoid repeated freeze/thaw cycles.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — NGF

Entrez GeneID	4803
Gene Name	NGF
Gene Alias	Beta-NGF, HSAN5, MGC161426, MGC161428, NGFB
Gene Description	nerve growth factor (beta polypeptide)

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Omim ID	162030 608654
Gene Ontology	Hyperlink
Gene 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
Other Designations	OTTHUMP00000013653|beta-nerve growth factor|nerve growth factor, beta polypeptide|nerve growth factor, beta subunit

Pathway

- Apoptosis
- MAPK signaling pathway
- Neurotrophin signaling pathway

Disease

- Alzheimer disease
- Anxiety Disorders
- Asperger Syndrome
- Asthma
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Bronchiolitis
- Dermatitis
- Disease Models
- Eating Disorders
- Genetic Predisposition to Disease
- Hereditary Sensory and Autonomic Neuropathies

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- Infant
- Kidney Failure
- Mental Disorders
- Multiple Sclerosis
- Personality Assessment
- Psychiatric Status Rating Scales
- Respiratory Syncytial Virus Infections
- Social Perception

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