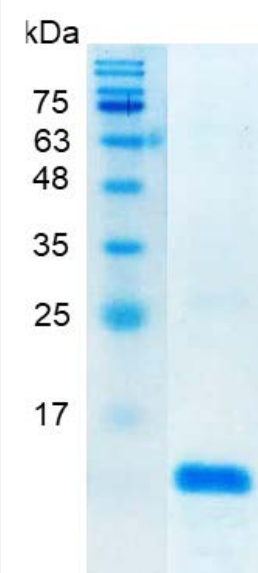
Bioactive

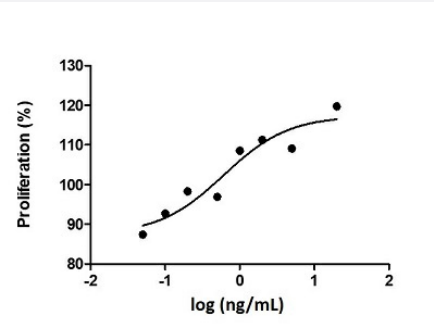
# NGF (Human) Recombinant Protein

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 |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **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.<br>SDS-PAGE analysis of NGF (Human) Recombinant Protein. |
| **Recommend Usage** | Biological Activity<br>SDS-PAGE<br>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 dd$H_2O$ 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.<br>Avoid repeated freeze/thaw cycles. |
| **Note** | Result of activity analysis<br>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) |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.