Bioactive

NGF (Human) Recombinant Protein

Catalog # P3657 Size 20 ug

Specification

Product Description	Human NGF (P01138, 122 a.a. - 241 a.a.) partial recombinant protein expressed in CHO cells.
Sequence	SSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNPVD SGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVRRA
Host	Mammals
Theoretical MW (kDa)	27
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED_{50} was determined by the determined by the ability to proliferate TF-1 cells and was found to be in the range of 0.5 ng/mL.
Storage Buffer	Lyophilized from 20 mM sodium acetate, 150 mM NaCl, pH 5.5
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — NGF

Entrez GeneID	4803
Protein Accession#	P01138
Gene Name	NGF
Gene Alias	Beta-NGF, HSAN5, MGC161426, MGC161428, NGFB
Gene Description	nerve growth factor (beta polypeptide)
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

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- Autistic Disorder
- Bronchiolitis
- Dermatitis
- Disease Models
- Eating Disorders
- Genetic Predisposition to Disease
- Hereditary Sensory and Autonomic Neuropathies
- Infant
- Kidney Failure
- Mental Disorders
- Multiple Sclerosis
- Personality Assessment
- Psychiatric Status Rating Scales
- Respiratory Syncytial Virus Infections
- Social Perception

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