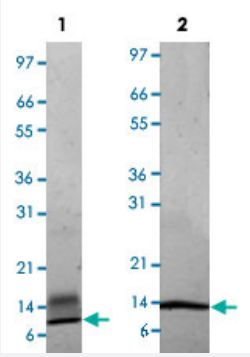
Bioactive

NGF (Human) Recombinant Protein

Catalog # P4432 Size 20 ug

Applications



Lane 1: non-reducing conditions
Lane 2: reducing conditions

Result of activity analysis

Result of activity analysis

Serial dilutions of human NGF, starting at 100 ng/mL, were added to TF-1 cells growing in GM-SCF free media. Cell proliferation was measure after 63 hours and the linear portion of the curve was us used to calculate the ED50.

Specification

Product Description	Human NGF (P01138) recombinant protein expressed in *Escherichia coli*.
Sequence	MSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNP VDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVRRA
Host	Escherichia coli
Theoretical MW (kDa)	27.2
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Endotoxin Level	< 0.1 EU/ug

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Activity	The activity is determined by the ability to stimulate the proliferation of TF-1 cells. The expected ED_{50} for this effect is 0.6-1 ng/mL.
Quality Control Testing	1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue Lane 1: non-reducing conditions Lane 2: reducing conditions
Storage Buffer	No additive
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterilized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis Serial dilutions of human NGF, starting at 100 ng/mL, were added to TF-1 cells growing in GM-SCF f ree media. Cell proliferation was measure after 63 hours and the linear portion of the curve was us us ed to calculate the ED50.

Applications

- Functional Study
- SDS-PAGE

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

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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
- Infant
- Kidney Failure

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

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