abcam

Product datasheet

Recombinant human NGF protein (Animal Free) ab179616

4 References

Description

Product name	Recombinant human NGF protein (Animal Free)
Biological activity	The activity is determined by the ability to stimulate proliferation of TF-1 cells and is typically less than 1 ng/mL.
Purity	> 97 % SDS-PAGE. assessed by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm. Note: This product is produced with no animal-derived raw products, animal free equipment and animal free protocols.
Endotoxin level	<=1.000 Eu/µg
Expression system	Escherichia coli
Accession	P01138
Protein length	Protein fragment
Animal free	Yes
Nature	Recombinant
Species	Human
Sequence	SSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVL GEVNINNSVFK QYFFETKCRD PNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAA WRFIRIDTACVCVLSRKAVRRA
Predicted molecular weight	14 kDa
Amino acids	122 to 241
Additional sequence information	Mature form.

Specifications

Our **Abpromise guarantee** covers the use of **ab179616** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC
	SDS-PAGE
	Functional Studies

Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions. Reconstituted material should be aliquoted and frozen at -20°C

General Info

Function	Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades through those receptor tyrosine kinase to regulate neuronal proliferation, differentiation and survival. Inhibits metalloproteinase dependent proteolysis of platelet glycoprotein VI (PubMed:20164177).
Involvement in disease	Neuropathy, hereditary sensory and autonomic, 5
Sequence similarities	Belongs to the NGF-beta family.
Cellular localization	Secreted.

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