

Datasheet for ABIN2727244

Nerve Growth Factor Protein (NGF)[Go to Product page](#)**1** Image

Overview

Quantity:	20 µg
Target:	Nerve Growth Factor (NGF)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Antibody Production (AbP), Standard (STD), Functional Studies (Func), Protein Interaction (PI)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul style="list-style-type: none">• Recombinant human NGF protein expressed in E. coli.• Produced with end-sequenced ORF clone• Tested for bioactivity.
Purity:	> 95 % as determined by SDS-PAGE and Coomassie blue staining
Endotoxin Level:	Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).
Biological Activity Comment:	determined by its ability to stimulate chick E9 DRG neurite outgrowth. ED50 is less than or equal to 1.0 ng/ml, corresponding to a specific activity of > 1 x 10 ⁶ units/mg.

Target Details

Target:	Nerve Growth Factor (NGF)
Alternative Name:	Ngf (NGF Products)

Target Details

Background: 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.

Molecular Weight: 13.5 kDa

NCBI Accession: [NP_002497](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Application Notes: Recombinant human proteins can be used for:

- Native antigens for optimized antibody production
- Positive controls in ELISA and other antibody assays
- Protein-protein interaction
- In vitro biochemical assays and cell-based functional assays

Restrictions: For Research Use only

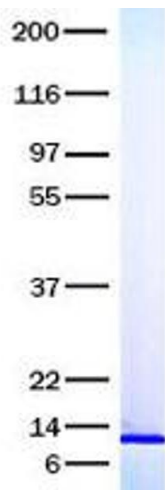
Handling

Buffer: Lyophilized from a 0.2 µM filtered solution of 20 mM phosphate buffer, 100 mM NaCl, pH 7.2

Handling Advice: Resuspend the protein in the desired concentration in proper buffer

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



Western Blotting

Image 1. Validation with Western Blot