

## Product datasheet

# Recombinant human NGF protein (Animal Free) ab217472

### Description

<b>Product name</b>	Recombinant human NGF protein (Animal Free)
<b>Biological activity</b>	Determined by the dose-dependent stimulation of the proliferation of human TF-1 cells. The expected <b>ED</b> <sub>50</sub> is ≤ 1.0 ng/ml, corresponding to a specific activity of ≥ 1 x 10 <sup>6</sup> units/mg.
<b>Purity</b>	> 98 % SDS-PAGE. > 98 % by HPLC.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P01138</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	Yes
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	SSSHPIFHRG EFSVCDSVSV WVGDKTTATD IKGKEVMVLG EVNINNSVFK QYFFETKCRD PNPVDSGCRG IDSKHWNSYC TTTHTFVKAL TMDGKQAAWR FIRIDTACVC VLSRKAVR
<b>Predicted molecular weight</b>	13 kDa
<b>Amino acids</b>	122 to 239
<b>Additional sequence information</b>	A non-covalently-linked homodimer of two 13.5 kDa, polypeptide monomers that each contain 120 amino acids and three disulfide bonds.

### Specifications

Our **Abpromise guarantee** covers the use of **ab217472** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE HPLC
<b>Form</b>	Lyophilized

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	For lot specific reconstitution information please contact our Scientific Support Team.

## General Info

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<b>Function</b>	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).
<b>Involvement in disease</b>	Neuropathy, hereditary sensory and autonomic, 5
<b>Sequence similarities</b>	Belongs to the NGF-beta family.
<b>Cellular localization</b>	Secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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