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Datasheet for ABIN1097406

Nerve Growth Factor Protein (NGF) (AA 19-241)

Overview

Quantity:	50 µg
Target:	Nerve Growth Factor (NGF)
Protein Characteristics:	AA 19-241
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human pro-Nerve Growth Factor/pro-NGF (Glu19-Ala241)
Sequence:	MEPHSESNVP AGHTIPQAHW TKLQHSLDTA LRRARSAPAA AIAARVAGQT RNITVDPRLF KKRRLRSPRV LFSTQPPREA ADTQDLDFEV GGAAPFNRTN RSKRSSSHPI FHRGEFSVCD SVSVWVGDKT TATDIKGKEV MVLGEVNINN SVFKQYFFET KCRDPNPVDS GCRGIDSKHW NSYCTTTHTF VKALTMDGKQ AAWRFIRIDT ACVCVLSRKA VVRA
Characteristics:	Recombinant Human precursor form of Nerve Growth Factor/pro-NGF produced in E. coli is a non-glycosylated non-covalently linked homodimer with each polypeptide chain containing 222 amino acids with an extra N-terminal Met with a molecular mass of 25kDa.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Nerve Growth Factor (NGF)
Abstract:	NGF Products
Background:	<p>The precursor form of the nerve growth factor (proNGF) like its mature form is characterized by the cystin knot motif consisting of three cystine bridges, whereas proneurotrophins and mature neurotrophins elicit opposite biological effects. ProNGF functions preferentially via the complex of pan-neurotrophin receptor p75 (p75NTR) and vps10p domain-containing receptor sortilin inducing neuronal apoptosis and contributing to age- and disease-related neurodegeneration.</p> <p>Alternative Names: Beta-Nerve Growth Factor, Beta-NGF, NGF, NGFB</p>
Molecular Weight:	25 kDa
UniProt:	P01138
Pathways:	Regulation of Cell Size

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 250 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months