

Human Beta-NGF Protein

Cat. No. NGF-HM00B

Description

Source	Recombinant Human Beta-NGF Protein is expressed from HEK293 without tag. It contains Ser122-Ala241.
Accession	P01138
Molecular Weight	The protein has a predicted MW of 13.49 kDa. Due to glycosylation, the protein migrates to 14-18 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

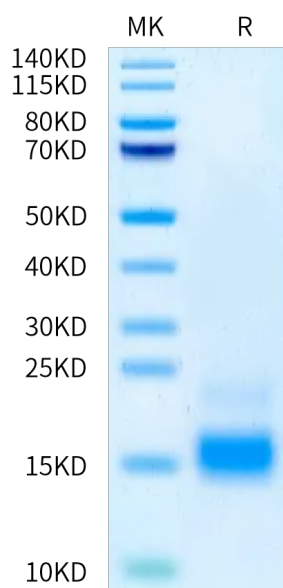
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM NaAc, 150mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in 20mM NaAc, 150mM NaCl (pH 5.5).
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Nerve growth factor-beta (β -NGF) is a polypeptide growth factor that regulates survival, growth, and differentiation of specific peripheral and central neurons via its high-affinity receptor, tyrosine kinase receptor A (TrKA), and low-affinity receptor, p75 neurotrophin receptor (p75NTR).

Assay Data

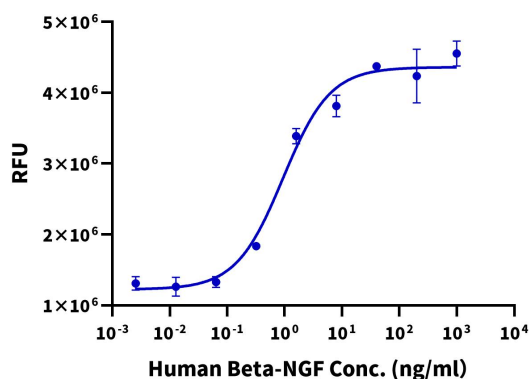
Bis-Tris PAGE



Human Beta-NGF on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

Cell Based Assay

Recombinant Human Beta-NGF Activity



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 0.2 - 2 ng/ml.