

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

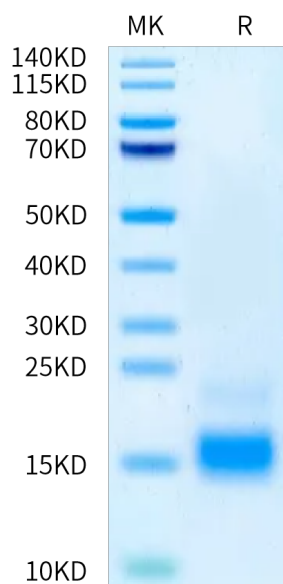
Formulation	Supplied as 0.22 μm filtered solution in 20mM NaAc, 150mM NaCl (pH 5.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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

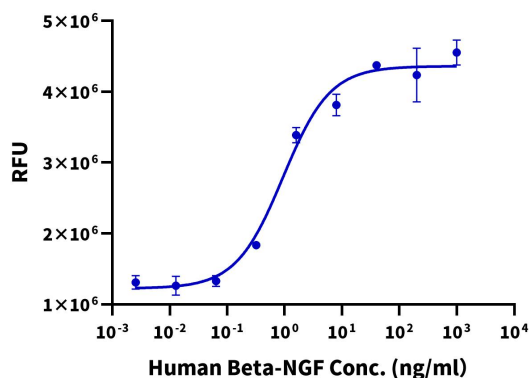
Bis-Tris PAGE



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.