Human NGF / NGFB recombinant protein

Catalog Number	502544
Species	Human
Expression System	CHO Cells
Accession	P01138
Gene ID	4803
Molecular Weight	The mature recombinant human ?-NGF consists of 118 amino acids and has a predicted molecular mass of 13.2 kDa. ?-NGF exists as a non-disulfide linked homodimer in solution.

Product Information

Sequence Region	Ser 122 - Arg 239
Form	Lyophilized powder
Formulation	Lyophilized from sterile 20mM NaAc, 150mM NaCl, pH 5.5 1. 5 % trehalose and mannitol are added as protectants before lyophilization. 2. Please contact us for any concerns or special requirements.
Purity	> 95 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED_{50} for this effect is typically 0.2-2 ng/ml.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Predicted N-terminal	Ser 122
Protein Construction	A DNA sequence encoding the mature form of human ?-NGF (NP_002497.2) (Ser 122-Arg 239) was expressed.

Storage & Handling

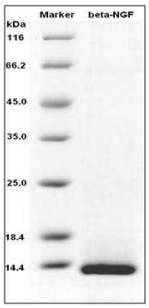
Reconstitution	Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	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).

Validation

SDS-PAGE



Human ?-NGF / Beta-NGF Protein SDS-PAGE