

NGF

Recombinant Human Beta-Nerve Growth Factor

Catalog No.	CRH611A-2 CRH611B-2	Quantity:	20 µg 100 µg
Alternate Names:	Beta-nerve growth factor, Beta-NGF		
Description:	Nerve growth factor (NGF) is important for the development and maintenance of the sympathetic and sensory nervous systems. NGF protein was identified as a large complex consisting of three non-covalently linked subunits, α , β , and γ , among which, the β subunit, called β -NGF (beta-NGF), was demonstrated to exhibit the growth stimulating activity of NGF protein. NGFB/beta-NGF gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. NGF protein acts via at least two receptors on the surface of cells (TrkA and p75 receptors) to regulate neuronal survival, promote neurite outgrowth, and up-regulate certain neuronal functions such as mediation of pain and inflammation. In addition, previous studies indicated that NGF may also have an important role in the regulation of the immune system.		
UniProt ID:	P01138		
Accession Number:	NP_002497.2		
Protein Construction:	A DNA sequence encoding the human NGF (Glu19-Ala241) was expressed with an initial Met.		
Source:	E. coli		
Formulation:	Lyophilized from sterile 0.01 % TFA, 40 % acetonitrile. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The recombinant human NGF consists of 224 amino acids and predicts a molecular mass of 25.1 kDa.		
Purity:	> 85 % as determined by SDS-PAGE.		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Met		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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