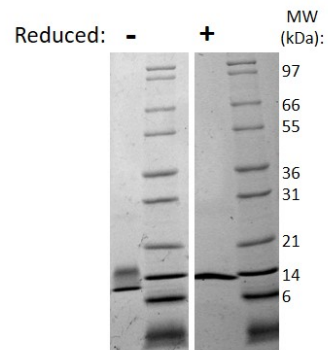
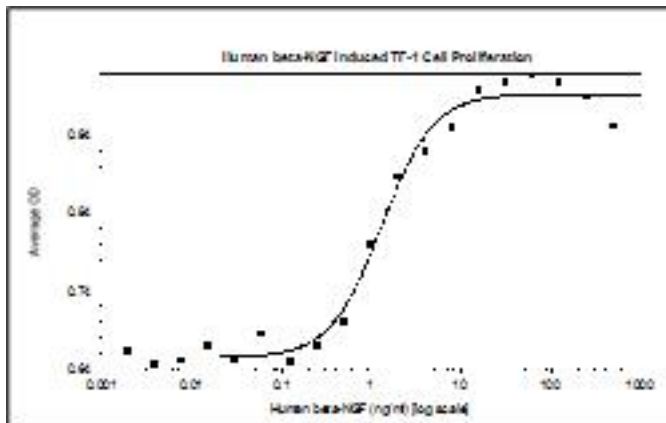


## NGF

### Recombinant Human Nerve Growth Factor beta

<b>Catalog No.</b>	CRN117A CRN117B CRN117C CRN117D	<b>Quantity:</b>	5 µg 20 µg 1 mg 100 µg
<b>Alternate Names:</b>	NGF, NGFB, HSAN5, Beta-NGF		
<b>Description:</b>	Nerve Growth Factor (NGF-beta) is a neurotrophic factor related to BDNF, NT-3 and NT-4. NGF-beta acts through its receptor beta-NGFR, and is involved in the development and maintenance of the sensory and sympathetic nervous systems. NGF-beta is also involved in the growth, differentiation and survival of B lymphocytes. Human, mouse and rat proteins show cross-reactivity.		
<b>Gene ID:</b>	4803		
<b>UniProt ID:</b>	P01138		
<b>Source:</b>	<i>E.coli</i>		
<b>Molecular Weight:</b>	Dimer, 13.6/27.3 kDa (121/242 aa)		
<b>Formulation:</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)		
<b>Purity:</b>	≥95% determined by reducing and non-reducing SDS-PAGE.		
<b>Endotoxin Level:</b>	≤ 1 EU/µg by kinetic LAL analysis		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤ 5.0 ng/mL, determined by its ability to stimulate the proliferation of TF-1 cells.		
<b>Specific Activity:</b>	≥ 2.0 x 10 <sup>5</sup> units/mg		
<b>Amino Acid Sequence:</b>	MSSSHPIFHR GEFSVCDSVS VVVGDKTTAT DIKGKEVMVL GEVNINNSVF KQYFFETKCR DPNPVDGCR GIDSKHWSY CTTTHTFVKA LTMDGKQAAW RFIRIDTACV CVLSRKAARR A		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.		
<b>Storage &amp; Stability:</b>	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. <b>Avoid repeated freeze-thaw cycles.</b>		



## Human Beta NGF Gel

Figure: 1 ug run under (-) non-reducing and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human NGF beta is a non-covalently linked homodimer with a total predicted MW of 27.3 kDa (each monomer 13.6 kDa).

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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