

## Beta-Nerve Growth Factor Human Recombinant, CHO

<b>Item Number</b>	rAP-2655
<b>Synonyms</b>	Beta Polypeptide, NGF, NGFB, HSN5, Beta-NGF, MGC161426, MGC161428.
<b>Description</b>	Nerve Growth Factor-beta Human Recombinant produced in CHO is a noncovalently disulfide linked homodimer, glycosylated, polypeptide chain (Ser122-Arg239) containing 2 identical 118 amino acids and having a molecular mass of 26.5 kDa. The NGF-b is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P01138
<b>Amino Acid Sequence</b>	Was analyzed by Mass spectrometry.
<b>Source</b>	Chinese Hamster Ovary Cells.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Nerve Growth Factor b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Nerve Growth Factor-beta should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw
<b>Formulation and Purity</b>	The protein was lyophilized from a 0.2µm filtered solution in 20mM PB and 250mM NaCl, pH 7.0. Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized NGF-b in sterile 18MΩ-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED <sub>50</sub> , calculated by its ability to stimulate chick E9 DRG neurite outgrowth was found to be > 1.0 ng/ml, corresponding to a specific activity of > 1 x 10 <sup>6</sup> units/mg.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**