NEUROMICS

Recombinant Human NGF-b, CHO   Datasheet

Catalog Number:	PR27002	**Product Type:**	Recombinant Protein

Source: *Chinese Hamster Ovary Cells*

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Ser-Ser-His-Pro.

Description/Molecular Mass: Nerve Growth Factor-beta Human Recombinant produced in CHO is a homodimer, glycosylated, polypeptide chain containing 2 identical 120 amino acids and having a molecular mass of 16,950 Dalton.
The NGF-b is purified by proprietary chromatographic techniques.

Protein Content: Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 1.1945 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

2. Analysis by RP-HPLC, using a calibrated solution of Nerve Growth Factor-b Recombinant as a Reference Standard.

Biological Activity: The ED_{50}, 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 10^6 units/mg.

Purity: Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis bySDS-PAGE.

Format: The protein was lyophilized from a 0.2µm filtered solution in 30mM sodium acetate pH=5.5 containing 1% HSA.

Reconstitution: It is recommended to reconstitute the lyophilized NGF-b in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage: 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.
Please prevent freeze-thaw cycles.

FOR RESEARCH USE ONLY

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