

Recombinant Human beta-NGF Protein

Product Information

Product Name	Cat#	Size
Recombinant Human beta--NGF Protein	92122ES60	100 µg

Product Description

Nerve growth factor (NGF) was composed of three non-covalently linked subunits, alpha, beta, and gamma. The human protein shares approximately 90% homology at the amino acid level with both the mouse and rat beta -NGF and exhibits cross-species activity. NGF is a well-characterized neurotropic protein that plays a critical role in the development of sympathetic and some sensory neurons in the peripheral nervous system.

Product Properties

Synonyms	NGF; ngf; beta NGF; beta-NGF; HSAN5; NGFB
Accession	P01138
Source	HEK293 Cells-derived Human NGF protein, Met1-Ala241 with mutation Arg 121 Gly.
Molecular Weight	Approximately 24.8 kDa.
AA Sequence	MSMLFYTLIT AFLIGIQAEF HSESNVPAGH TIPQAHWTKL QHSLDTALRR ARSAPAAAIA ARVAGQTRNI TVDPRLFKKR RLRSRVLFS TQPPREAADT QDLDFEVGGA APFNRTHRSK GSSSHPIFHR GEFSVCDSVS VWVGDKTTAT DIKGKEVMVL GEVNINNSVF KQYFFETKCR DPNPVDSGCR GIDSKHWNSY CTTHTFVKA LTMDGKQAAW RFIRIDTACV CVLSRKAVRR A
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE.
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED ₅₀ for this effect is typically 5-20 ng/mL.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.