

Product Information

HumanKine® Nerve Growth Factor β, Human Recombinant, Expressed in HEK 293 Cells

H9666

Storage Temperature -20 °C

Synomyn: NGF-β

Product Description

HumanKine $^{\otimes}$ NGF- β is expressed in human 293 cells as a non-glycosylated, non-disulfide bonded 13 kDa homodimer.

NGF-β belongs to the nerve growth factor protein superfamily. It is a key growth factor in target-mediated regulation of peripheral innervation. During development, NGF-b regulates nerve cell death, synaptic connectivity, fiber guidance, and dendritic morphology. The presence of NGF-b in immune cells and endocrine cells as well as in the CNS limbic areas suggests that it may function as an intracellular messenger to regulate the body's response to stress.

This product is lyophilized from a PBS solution.

EC₅₀: \leq 3.0 ng/mL

The activity was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).

Purity: ≥95% (SDS-PAGE) Endotoxin level: ≤1 EU/µg

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage/Stability

Store the product at -20 °C.

Upon reconstitution, the cytokine can be stored at 2-8 °C for short term only, or at -20 °C to -80 °C in aliquots for long term. Avoid repeated freeze-thaw cycles.

References

1. Kitamure, T. et al., J. Cell Physiol., 140, 323-334 (1989). 2. Cirulli, F. et al., Front. Neuroendo., 30, 379-395 (2009).



Notice

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

The information in this document is subject to change without notice and should not be construed as a commitment by the manufacturing or selling entity, or an affiliate. We assume no responsibility for any errors that may appear in this document.

Technical Assistance

Visit the tech service page at SigmaAldrich.com/techservice.

Terms and Conditions of Sale

Warranty, use restrictions, and other conditions of sale may be found at SigmaAldrich.com/terms.

Contact Information

For the location of the office nearest you, go to SigmaAldrich.com/offices.

The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.



