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DATASHEET

Recombinant mouse beta-NGF protein

Product overview

Name Recombinant mouse beta-NGF protein

Cat No HB9755

Biological description beta-NGF is a neurotrophic factor found in many tissue and is involved in a range of biological actions

and promotes the survival and differentiation of neurons.

It is also involved in the immune system and has been shown to downregulate IFN-gamma production

by T-cells.

Species of origin mouse

Alternative names Recombinant Mouse beta Nerve Growth Factor, Beta Polypeptide, NGF, NGFB, HSAN5, Beta-NGF,

MGC161426, MGC161428.

Biological action Activator >98%

Description Recombinant mouse neurotrophic factor related to BDNF, NT-3 and NT-4

Biological Data

Application notes $ED_{50} = 0.2$ ng/ml, corresponding to a specific activity of >5,000,000units/mg (activity measured in a cell

proliferation assaying using a factor-dependent human erythroleukemic cell line (TF-1).

Solubility & Handling

Storage instructions Solubility overview

-20°C

To make a stock solution, reconstitute in sterile $18M\Omega$ cm water at a concentration > $100\mu g/ml$, which can then be diluted to make a working solution

Handling

- Solutions should be made in sterile deionized water (not less than 100 μg/ml). This solution can then be further diluted with other aqueous solutions.
- Following reconstitution, solutions may be stored at 4 °C and are useable for around 2-7 days and for future use store at -18 °C.
- Freeze-thaw cycles should be prevented.

Shipping Conditions Important Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

UniProt ID P01139 Source E. Coli.

AppearanceWhite lyophilized powder (sterile filtered & freeze-dried)FormulationLyophilized with no additional buffer or additives

References

Studies on the expression of the beta nerve growth factor (NGF) gene in the central nervous system: level and regional distribution of NGF mRNA suggest that NGF functions as a trophic factor for several distinct populations of neurons

Shelton DL et al (1986) Proc Natl Acad Sci U S A 83(8)

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Recombinant human beta-nerve growth factor (NGF): biological activity and properties in an enzyme immunoassay

Soderstrom S *et al* (1990) J Neurosci Res 27(4) **PubMedID** 2079723

Studies on the regulation of beta-nerve growth factor gene expression in the rat iris: the level of mRNA-encoding nerve growth factor is increased in irises placed in explant cultures in vitro, but not in irises deprived of sensory or sympathetic innervat

Shelton DL *et al* (1986) J Cell Biol 102(5) **PubMedID** 3700478