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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
Purity	>98%
Description	Recombinant mouse neurotrophic factor related to BDNF, NT-3 and NT-4

Biological Data

Application notes	ED_{50} = 0.2ng/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	-20°C
Solubility overview	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration > 100µg/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.
Important	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.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	Lyophilized 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)
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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)
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