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## DATASHEET

### Recombinant mouse beta-NGF protein

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#### Product overview

<b>Name</b>	Recombinant mouse beta-NGF protein
<b>Cat No</b>	HB9755
<b>Biological description</b>	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.
<b>Species of origin</b>	mouse
<b>Alternative names</b>	Recombinant Mouse beta Nerve Growth Factor, Beta Polypeptide, NGF, NGFB, HSN5, Beta-NGF, MGC161426, MGC161428.
<b>Biological action</b>	Activator
<b>Purity</b>	>98%
<b>Description</b>	Recombinant mouse neurotrophic factor related to BDNF, NT-3 and NT-4

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#### Biological Data

<b>Application notes</b>	ED <sub>50</sub> = 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).
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#### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	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
<b>Handling</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• Freeze-thaw cycles should be prevented.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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#### Chemical Data

<b>UniProt ID</b>	P01139
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized with no additional buffer or additives

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#### 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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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)

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