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# **DATASHEET**

Recombinant human beta-NGF (CHO-expressed) protein

#### **Product overview**

Name Recombinant human beta-NGF (CHO-expressed) protein

Cat No HB4022 Species of origin human

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

NGF, MGC161426, MGC161428.

Purity >95%

**Description** CHO-expressed recombinant human beta-NGF protein

## **Biological Data**

**Application notes**  $ED_{50} = < 1.0 \text{ ng/ml}$  (calculated by its ability to stimulate chick E9 DRG neurite outgrowth),

corresponding to a specific activity of > 1 x 106 units/mg.

## **Solubility & Handling**

Storage instructions -20

Solubility overview

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

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.

For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions.
Solutions should be aliquoted into tightly sealed vials for storage at -20°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 P01138

**Source** Chinese Hamster Ovary Cells.

**Appearance** White lyophilized powder (sterile filtered & freeze-dried)

Formulation Lyophilized from a 0.2µm filtered solution in 20mM PB and 0.25M NaCl (pH 7.0)

### 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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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