Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

# 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 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°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.<br>• 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.<br>• 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. |
| **Shipping Conditions** | Stable for ambient temperature shipping. Follow storage instructions on receipt. |
| **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)
**PubMedID** 3458230

**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