

## Recombinant Human NGF- $\beta$

<b>CATALOG #:</b>	4303-20	20 $\mu$ g
	4303-100	100 $\mu$ g
	4303-1000	1 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	CHO	
<b>PURITY:</b>	>98% by SDS-PAGE and HPLC analyses Endotoxin level is less than 0.1 ng per $\mu$ g of NGF- $\beta$	
<b>FORM:</b>	Sterile filtered and then lyophilized in 30 mM Sodium Acetate, pH 5.5 containing 1% HAS.	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The solution can be diluted into other aqueous buffers and stored at 4°C for 2-7 days or store at -20°C for future use.

### STORAGE CONDITIONS:

The lyophilized human NGF- $\beta$  is best-stored desiccated below 0°C. Reconstituted human NGF-beta should be stored in working aliquots at -20°C. For long-term storage, it is recommended to add a carrier protein (0.1% HAS or BSA). Avoid freeze/thaw cycles.

### DESCRIPTION:

Nerve growth factor-beta (NGF- $\beta$ ) is a potent neurotrophic factor that supports the growth and survivability of nerve and/or glial cells. The active form of human NGF- $\beta$  is a dimer, formed by two identical 119 amino acid subunits, which is held together by strong hydrophobic interactions. Recombinant human BGF-b produced in CHO cells is a homodimer, glycosylated, polypeptide chain containing 2 identical 119 amino acids and having a molecular weight of 16.95 kDa. The protein is purified by proprietary chromatographic techniques.

### BIOLOGICAL ACTIVITY:

The ED<sub>50</sub> as determined using PC12 cell line is 1.2-2 ng/ml and using DRG cell line is 0.8-1.5 ng/ml.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

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