

## Beta-NGF Protein, Human (HEK293)

<b>Cat. No.:</b>	HY-P7660
<b>Synonyms:</b>	rHuBeta-NGF; Beta-Nerve Growth Factor; Beta-NGF;
<b>Species:</b>	Human
<b>Source:</b>	HEK 293
<b>Accession:</b>	P01138 (S122-R239)
<b>Gene ID:</b>	4803
<b>Molecular Weight:</b>	Approximately 14.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           S S S H P I F H R G    E F S V C D S V S V    W V G D K T T A T D    I K G K E V M V L G            E V N I N N S V F K    Q Y F F E T K C R D    P N P V D S G C R G    I D S K H W N S Y C            T T T H T F V K A L    T M D G K Q A A W R    F I R I D T A C V C    V L S R K A V R         </p>
<b>Biological Activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.04-0.4 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against 20 mM PB, 250 mM NaCl, pH7.0.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O or PBS.
<b>Storage &amp; Stability</b>	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Beta-nerve growth factor is a basic protein of 118 amino acids which acts as a trophic factor for sensory and sympathetic neurons of the peripheral nervous system, and on cholinergic neurons of the anterior basal cerebrum <sup>[2]</sup> .
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### REFERENCES

[1]. Yue XJ, et al. Over-expression of nerve growth factor-β in human cholangiocarcinoma QBC939 cells promote tumor progression. PLoS One. 2013;8(4):e62024. Published 2013 Apr 24.

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[2]. Castellanos MR, et al. Obtención y caracterización del beta-NGF murino. Aplicación en un modelo de envejecimiento cerebral [Obtention and characterization of murine beta-NGF. Application in a model of cerebral aging]. Rev Neurol. 1998;26(153):717-722.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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