



## Human beta Nerve Growth Factor protein expressed in mammalian cells

<b>Catalogue No.:</b>	PE-1239-2
<b>Description:</b>	Nerve growth factor (NGF) is important for the development and maintenance of the sympathetic and sensory nervous systems. It stimulates division and differentiation of sympathetic and embryonic sensory neurons.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	2 ug
<b>Other Names:</b>	Beta-nerve growth factor; beta-NGF; NGFB;
<b>Accession:</b>	P01138 NGF_HUMAN;
<b>Produced in:</b>	Human - A DNA sequence encoding the human beta NGF protein sequence (containing the signal peptide, pro-peptide and the mature beta NGF sequence) was expressed in modified human 293 cells.

Theoretical peptide sequence:

YAEHKSHRGEYSVCDSESLWVTDKSSAIDIRGHQVTVLGEIKTGNSPVKQYFYETRCKEAR  
PVKNGCRGIDDKHWNSQCKTSQTYVRALTSENNKLVGWRWIRIDTSCVCALSRKIGRT

<b>Molecular Weight:</b>	The NGF protein migrates at approximately 12-16 kDa in SDS-PAGE. It has a predicted molecular mass of 13.5 kDa. The protein separates into a number of isoforms with a pI between 9 and 10 in 2D PAGE due to post-translational modifications. The unmodified protein has a predicted pI of 9.
<b>Purity:</b>	>95%, as determined by SDS-PAGE and visualized by silver stain
<b>Biol. activity:</b>	The ED50 of beta NGF is typically 0.2-1.0 ng/ml as measured in a cell proliferation assay using the human growth factor dependent TF-1 cell line.
<b>Reconstitution:</b>	It is recommended that 0.5 mL of sterile phosphate-buffered saline be added to the vial.
<b>Storage:</b>	Lyophilized products should be stored at 2-8C. Following reconstitution, short-term storage at 2-8C is recommended and longer-term storage of aliquots at -18 to -20C. Repeated freeze/thawing is not recommended.

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