

## HumanKine® recombinant human beta NGF protein

Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

### Product Description

Animal-free Recombinant Human beta NGF is expressed in human 293 cells as a non-disulfide bonded homodimeric protein with an apparent molecular mass of 13 kDa. Beta NGF is critical for the survival and maintenance of sympathetic and sensory neurons and may play an important role in the regulation of the immune system. The presence of beta NGF in immune cells and endocrine cells as well as in the CNS limbic areas suggests that beta NGF may function as an intracellular messenger to regulate the body's response to stress. This product is produced in a human cell expression system with serum-free, chemically defined media.

#### Alternative Names

Beta nerve growth factor, Beta NGF, HSAN5, NGF, NGFB, proNGF

#### Source

Human Embryonic Kidney cells (HEK293). HEK293-derived beta NGF protein

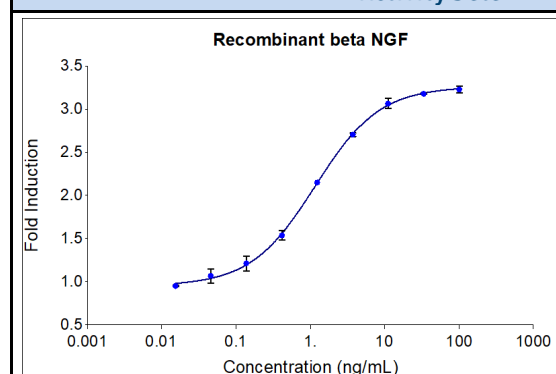
#### Species Reactivity

human

### Specifications

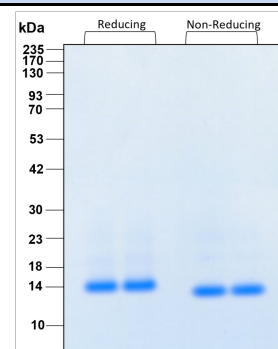
Test	Method	Specification
Activity (EC50)	Dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)	0.5-3.0 ng/mL
Molecular Mass	SDS-PAGE	13 kDa reduced, 14 kDa non-reduced, non-disulfide bonded homodimer, non-glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

### Activity Data



Recombinant human beta NGF (HZ-1222) stimulates dose-dependent proliferation of the TF-1 human erythroleukemic indicator cell line. Cell number was quantitatively assessed by Prestoblu® Cell Viability Reagent. TF-1 cells were treated with increasing concentration of recombinant beta NGF for 72 hours. The EC50 range is 0.5-3.00 ng/mL.

### SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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