HUMANZYME
HUMAN PROTEINS FROM HUMAN CELLS

PRODUCT DATA SHEET

Recombinant Human beta NGF (beta Nerve Growth Factor)

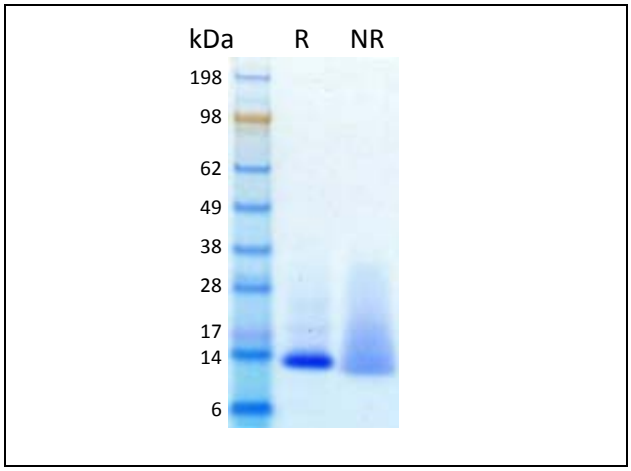
Catalog # (Size): **HZ-1222 (10µg)** **HZ-1223 (100µg)** **HZ-1264 (1000µg)**

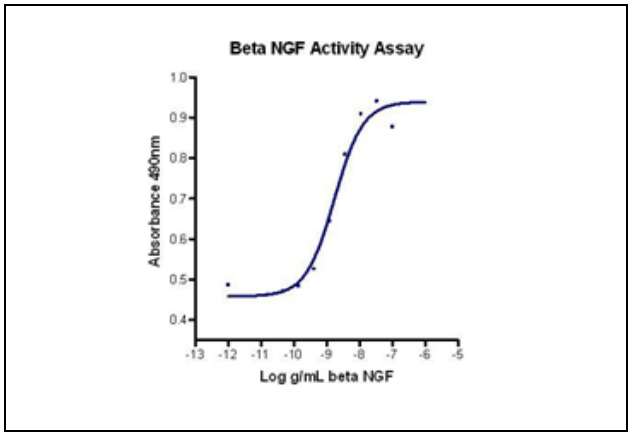
Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- High Activity

Xeno-free beta NGF^{HuXp} 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.

All HumaXpress® HumanKine™ are animal-component-free and Xeno-free™





Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 4 ng/mL EC_{50}
Purity	>95%
Endotoxin	<1 EU/µg
Molecular Mass	13 kDa, non-disulfide bonded homodimer, non-glycosylated
Formulation	1x PBS

Purity Confirmation

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

The activity was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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