

# Recombinant Human Neurotrophin-3/NGF-2/NT-3 Protein

Catalog No.: RP00496    Recombinant    1 Publications

## Sequence Information

**Species**    **Gene ID**    **Swiss Prot**  
 Human        4908        P20783

**Tags**  
 No-Tag

### Synonyms

NTF3;Neurotrophin-3; NT-3; HDNF; Nerve growth factor 2; NGF-2; Neurotrophic factor

## Background

Neurotrophin-3 (NT-3) is a member of the NGF family of neurotrophic factors and is structurally related to  $\beta$ -NGF, BDNF and NT-4. The NT3 cDNA encodes a 257 amino acid residue precursor protein with a signal peptide and a proprotein that are cleaved to yield the 119 amino acid residue mature NT3. The amino acid sequences of mature human, murine and rat NT-3 are identical. NT-3 selectively promotes the differentiation and survival of specific neuronal subpopulations in both the central as well as the peripheral nervous systems.

## Basic Information

### Description

Recombinant Human Neurotrophin-3/NGF-2/NT-3 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Tyr139-Thr257) of Human Neurotrophin-3/NGF-2/NT-3 (Accession # P20783) fused with No-Tag.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human TrkB (Catalog: RP00290) at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind Recombinant Human Neurotrophin-3/NGF-2/NT-3 with a linear range of 1.95-35.5 ng/mL.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
 After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
 Avoid repeated freeze/thaw cycles.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Product Information

**Source**    **Purification**  
*E. coli*         $\geq 95\%$  as  
 determined by SDS-PAGE.

**Calculated MW**    **Observed MW**  
 13.6 kDa        14 kDa

**Endotoxin**  
 < 0.01 EU/ $\mu$ g of the protein by LAL method

**Formulation**  
 Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 5.2.

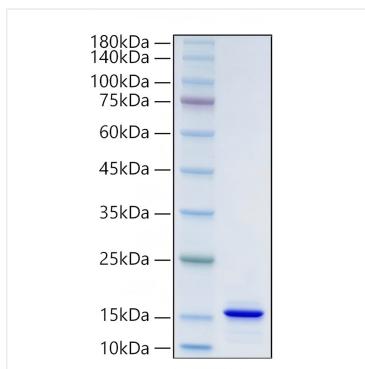
### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze/thaw cycles.

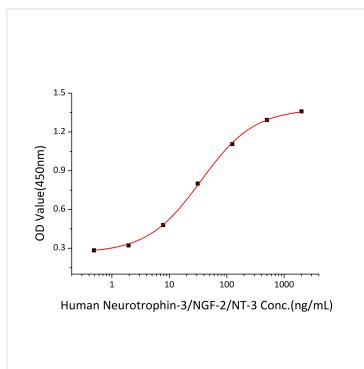
## Contact

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## Validation Data



Recombinant Human Neurotrophin-3/NGF-2/NT-3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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