

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

Product Information

Source Purification *E. coli* ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

13.6 kDa 14 kDa

Endotoxin

 $< 0.01 \; \text{EU/}\mu\text{g}$ of the protein by LAL method

Formulation

Lyophilized from a 0.22 µm 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Neurotrophin-3 (NT-3) is a member of the NGF family of neurotrophic factors and is structurally related to β -NGF, BDNF and NT-4. The NT3 cDNA encodes a 257 amino acid residue precursor protein with a signal peptideand a proprotein that are cleaved to yield the 119 amino acid residue mature NT3.The amino acid sequencesof mature human, murine and rat NT-3 are identical. NT-3 selectively promotes the differentiation and survivalof 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.

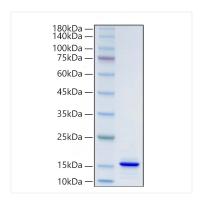
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

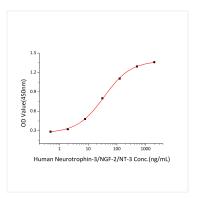
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

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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