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

Catalog No.: RP00496

Sequence Information

Species
Human

Gene ID
4908

Swiss Prot
P20783

Tags
No-Tag

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

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
13.6 kDa

Observed MW
14 kDa

Endotoxin
< 0.01 EU/μg 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.

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.

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

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

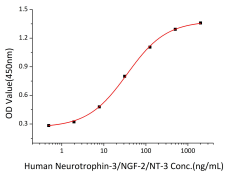
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

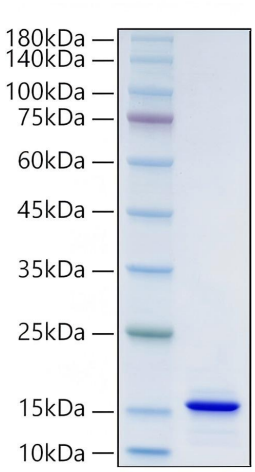
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Validation Data



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



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