

Neurotrophin 3 Protein, Human, Recombinant V2

General Information

Synonyms:	neurotrophin 3;NT-3;NGF-2;HDNF;NT3;NGF2
Protein Construction:	Tyr139-Thr257
Species:	Human
Expression Host:	E. coli
Accession:	P20783
Molecular Weight:	13.6 kDa (Predicted); 14 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized Human AXL-His at 10 µg/ml (100 µl/well) can bind Human GAS6-His*.*: Biotinylated by NHS-biotin prior to testing The ED50 of Recombinant Human GAS6-His* is 0.04466 ug/ml. (Regularly tested)
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.01 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 250 mM NaCl, pH 7.2.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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 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.

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