

GFH99 Recombinant Human NT-3

Description

Neurotrophin-3 (NT-3) is an important member of the Nerve Growth Factor (NGF) family of proteins. NT-3 promotes the growth, survival, and differentiation of neurons and synapses in the peripheral and central nervous systems. The receptor tyrosine kinase TrkC exclusively binds in high-affinity to NT-3. NT-3 also signals through the receptor tyrosine kinase TrkB, and through the low affinity nerve growth factor receptor (LNGFR).

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|-------------------------|---|
| Length | 120 / 240 aa |
| Molecular Weight | 13.8 / 27.5 kDa |
| Source | E. coli |
| Accession Number | P20783 |
| Purity | ≥95% determined by reducing and non-reducing SDS-PAGE |

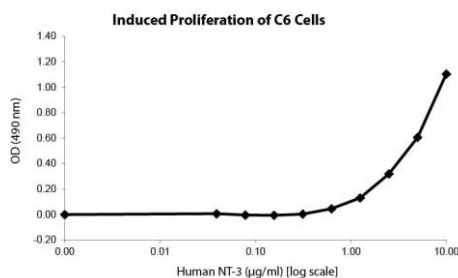
Specifications

| | |
|----------------------------|--|
| Alternative Names | Migration Inhibitory Factor, GIF, phenylpyruvate tautomerase, glycosylation-inhibiting factor, L-dopachrome tautomerase |
| Biological Activity | Human NT-3 is fully biologically active when compared to standard. The activity is determined by the ability to induce C6 cells proliferation. |
| Endotoxin Level | ≤1.00 EU/μg as measured by kinetic LAL |
| Formulation | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA) |
| AA Sequence | MYAEHKSHRG EYSVCDSESL WVTDKSSAID IRGHQVTVLG EIKTGNSPVK QYFYETRCKE ARPVKNGCRG IDDKHWNSQC KTSQTYVRAL TSENNKLVGW RWIRIDTSCV CALSRKIGRT |

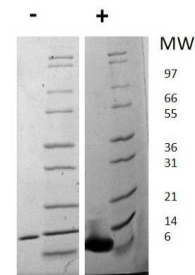
Preparation and Storage

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|------------------------------|---|
| Reconstitution | Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions. |
| Stability and Storage | 12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed. |

Data



Induced proliferation of C6 cells assay for Human NT-3.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human NT-3 has a predicted Mw of 27.2 kDa (each monomer is 13.6 kDa).