

GFH99AF

Recombinant Human NT-3 (Animal-Free)

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).

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

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

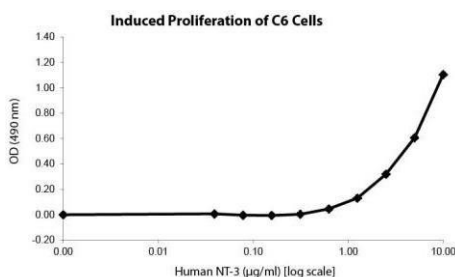
Specifications

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 WPTDKSSAID IRGHQVTVLG EIKTGNPVPK QYFYETRCKE ARPVKNGCRG IDDKHWNSQC KTSQTYVRAL TSENNKLVGW RWIRIDTSCV CALSRKIGRT

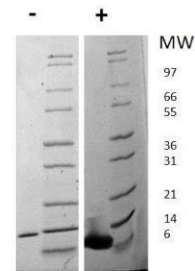
Preparation and Storage

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).