

GFH59 Recombinant Human CNTF

Description

Ciliary Neurotrophic Factor (CNTF) is a neurotrophic factor that promotes the survival of neuronal cell populations, neurite outgrowth, and neurotransmitter synthesis. CNTF also plays an important protective role during nervous system injury.

Length	200 aa
Molecular Weight	22.9 kDa
Source	E. coli
Accession Number	P26441
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

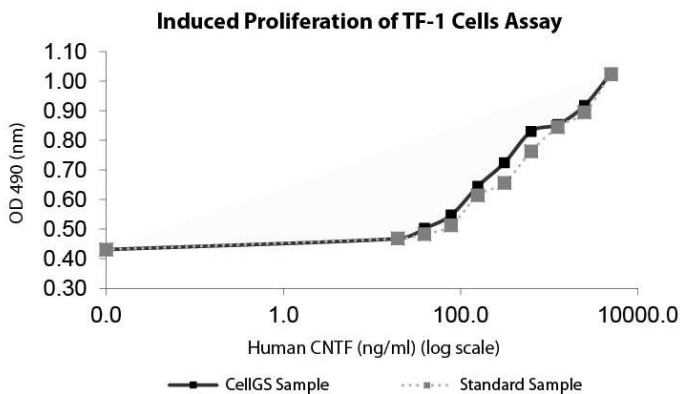
Specifications

Alternative Names	Ciliary Neurotrophic Factor
Biological Activity	Human CNTF is fully biologically active when compared to standard. The activity is determined by the induced proliferation of TF-1 cells and it is typically less than 325 ng/ml. This corresponds to an expected specific activity of 3.1×10^3 units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MAFTEHSPLT PRRDLCSRS IWLARKIRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLQVAFA YQIEELMILL EYKIPNEAD GMPINVDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKKM

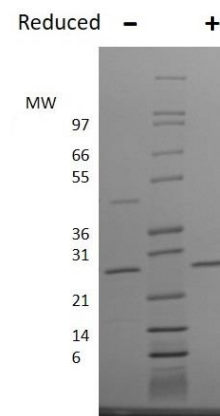
Preparation and Storage

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. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate.
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 TF-1 cells assay for Human CNTF. Cell proliferation was measured to calculate the ED50, which is as expected around 250 ng/ml.



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 CNTF has a predicted Mw of 22.9 kDa.