

Datasheet for ABIN987792 **CNTF Protein**



[Go to Product page](#)

Overview

Quantity:	20 µg
Target:	CNTF
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

Product Details

Sequence:	MAFTEHSPLT PHRRDLCRSR IWLARKLRSD LTALTESYVK HQGLNKNINL DSADGMPVAS TDQWSELTEA ERLQENLQAY RTFHVLLARL LEDQQVHFTP TEGDFHQAIH TLLLQVAAFA YQIEELMILL EYKIPRNEAD GMPINVDGG LFEKKLWGLK VLQELSQWTV RSIHDLRFIS SHQTGIPARG SHYIANNKK
Characteristics:	Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of TF-1 cells is less than 2.0 ng/ml, corresponding to a specific activity of > 5.0 x 10 ⁵ units/mg.
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/µg of rHuCNTF as determined by LAL method

Target Details

Target:	CNTF
Abstract:	CNTF Products
Background:	Ciliary neurotrophic factor (CNTF) is a polypeptide initially purified from chick embryo ocular

Target Details

tissue and identified as a trophic factor for embryonic chick ciliary parasympathetic neurons in culture. Subsequent studies have demonstrated that CNTF is a survival factor for additional neuronal cell types including: dorsal root ganglion sensory neurons, sympathetic ganglion neurons, embryonic motor neurons, major pelvic ganglion neurons and hippocampal neurons. CNTF has also been shown to prevent the degeneration of motor axons after axotomy. The gene for human CNTF has been localized to the proximal region of the long arm of chromosome 11. The cDNA for human CNTF encodes a 200 amino acid residue polypeptide that lacks a signal sequence. CNTF is highly conserved across species and exhibits cross-species activities. Human and rat CNTF share approximately 83% homology in their protein sequence. CNTF is structurally related to IL-6, IL-11, LIF and OSM. All of these four helix bundle cytokines share gp130 as a signal-transducing subunit in their receptor complexes. Synonym: Ciliary Neurotrophic Factor (CNTF), Human. Formulation: Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

Molecular Weight: Approximately 22.9 kDa, a single non-glycosylated polypeptide chain containing 200 amino acids.

Pathways: [JAK-STAT Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.

Storage: 4 °C