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CNTF Protein (AA 1-200)



Overview

Quantity:	50 μg
Target:	CNTF
Protein Characteristics:	AA 1-200
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.20 µg/mL, measured in a cell proliferation assay using TF-1 cells.
Purity:	> 95 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, 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
	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. 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.

Synonyms: Ciliary Neurotrophic Factor

Molecular Weight:

22-28 kDa, observed by reducing SDS-PAGE.

UniProt:

P26441

Pathways:

JAK-STAT Signaling

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant Human Ciliary Neurotrophic Factor (CNTF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Ciliary Neurotrophic Factor (CNTF) should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.
Expiry Date:	6 months