

Datasheet for ABIN2017718 **CNTF Protein (AA 1-200)**

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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.

Target Details

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.
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UniProt:	P26441
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Pathways:	JAK-STAT Signaling
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.
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Buffer:	Lyophilized after extensive dialysis against PBS.
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Storage:	-80 °C
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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.
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Expiry Date:	6 months
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