

Datasheet for ABIN2017716 **CNTF Protein (AA 2-200)**

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Overview

Quantity:	50 µg
Target:	CNTF
Protein Characteristics:	AA 2-200
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 200 ng/mL, measured cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 5x10 ³ units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	CNTF
Abstract:	CNTF Products
Background:	Ciliary Neurotrophic Factor (CNTF) is a cytokine belonging to the Interleukin 6 (IL-6) family, which also includes IL-6, Oncostatin M, Leukemia Inhibitory Factor (LIF), and Cardiotrophin-1. Structurally, CNTF resembles a four-helix bundle composition, similar to the other members of the IL-6 family. The receptor for CNTF is composed of three parts: a gp130-like subunit

Target Details

common in the IL-6 receptor family, a LIF Receptor beta subunit, and a CNTF specific alpha receptor subunit. Upon binding to the CNTF, the beta subunit of the CNTF receptor will undergo tyrosine phosphorylation, and activate the intracellular JAK/STAT pathway. The main function of CNTF in vivo is to promote the differentiation and survival of a variety of neurons and glial cells, including sympathetic precursor cells and spinal motor neurons. Recombinant human Ciliary Neurotrophic Factor (rhCNTF) produced in E. coli is a single non-glycosylated polypeptide chain containing 199 amino acids. A fully biologically active molecule, rhCNTF has a molecular mass of 22.8 kDa analyzed by reducing SDS-PAGE.

Synonyms: Ciliary Neurotrophic Factor

Molecular Weight: 22.8 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 (rhCNTF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhCNTF remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months