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Recombinant Human CNTF Protein

CAT. NO: R00609

Size: 100µg

Description

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 common in the IL-6 receptor family, a LIF Receptor β subunit, and a CNTF specific a receptor subunit. Upon binding to the CNTF, the β subunit of the CNTF receptor will undergo tvrosine phosphorylation, and activate 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 and is obtained by proprietary chromatographic techniques at GenScript.

Amino Acid Sequence:

HRRDL CSRSI WLARK IRSDL TALTE SYVKH QGLNK NINLD SADGM PVAST DQWSE LTEAE RLQEN LQAYR TFHVL LARLL EDQQV HFTPT EGDFH QAIHT LLLQV AAFAY QIEEL MILLE YKIPR NEADG MPINV GDGGL FEKKL WGLKV LQELS QWTVR SIHDL RFISS HQTGI PARGS HYIAN NKKM

Source: E. coli His12-Met200

Species: human

Purity: >95%, by SDS-PAGE quantitative densitometry by Coomassie® Blue Staining.

Molecular Weight: 21.7KD

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstitute in ddH_2O at 100 μ g/mL.

Endotoxin: Less than 1 EU/μg of rhCNTF as determined by LAL method.

Storage:

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.