CNTF Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Ciliary Neurotrophic Factor

Cat. No.:

RBG10105005	(5 µg)
RBG10105020	(20 µg)
RBG10105100	(100 µg)

Description

CNTF is a potent neural factor that was originally characterized as a vital factor for the survival of chick ciliary neurons in vitro. CNTF is also important for the survival of other neural cell types, including primary sensory neurons, motor neurons, basal forebrain neurons and type 2 astrocytes. CNTF is highly conserved across species and exhibits cross-species bioactivity. Recombinant Human CNTF is synthesized as a 199 amino acid polypeptide (22.8 kDa) lacking a hydrophobic N-terminal signal for secretion.

Research topic

Apoptosis, Bone and cartilage metabolism, Cardiovascular disease, Coronary artery disease, Diabetology - Other Relevant Products, Energy metabolism and body weight regulation, Neural tissue markers

Amino Acid Sequence

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AFTEHSPLTP HRRDLCSRSI WLARKIRSDL TALTQSYVKH QGLNKNINLD SADGMPVAST DQWSQLTQAQ RLQQNLQAYR
TFHVLLARLL QDQQVHFTPT QGDFHQAIHT LLLQVAAFAY QIQQLMILLQ YKIPRNQADG MPINVGDGGL FQKKLWGLKV
LQQLSQWTVR SIHDLRFISS HQTGIPARGS HYIANNKKM
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Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to stimulate proliferation of human TF-1 cells using an ED_{50} concentration range of 50-150 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 5-10 mM Sodium Phosphate, pH 7.5 to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

-20°C

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