Datasheet for ABIN7519878

CNTF Protein (His tag)

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Overview

Quantity:	100 µg
Target:	CNTF
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CNTF protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Rat CNTF Protein
Sequence:	MAFAEQTPLT LHRRDLCSRS IWLARKIRSD LTALMESYVK HQGLNKNINL DSVDGVPVAS TDRWSEMTEA ERLQENLQAY RTFQGMLTKL LEDQRVHFTP TEGDFHQAIH TLMLQVSAFA YQLEELMVLL EQKIPENEAD GMPATVGDGG LFEKKLWGLK VLQELSQWTV RSIHDLRVIS SHQMGISALE SHYGAKDKQM
Specificity:	Met1-Met200
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<1EU/µg
Biological Activity Comment:	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED_{50} for this effect is 14.08-56.34 ng/mL.

Target Details

Target:	CNTF
Alternative Name:	CNTF (CNTF Products)
Background:	Description: Ciliary neurotrophic factor (CNTF) is a member of the cytokine family. It is a polypeptide hormone that has functions in promoting neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. Its actions appear to be restricted to the nervous system. Ciliary neurotrophic factor (CNTF) has biological effects through the activation of a multi-subunit receptor complex, consisting of an extracellular CNTF binding subunit (CNTFα) and two transmembrane signal transduction proteins: glycoprotein gp130 and LIF receptor. CNTF is considered as a potent survival factor of neurons and oligodendrocyteands may be relevant in reducing tissue destruction during inflammatory attacks. CNTF also is a survival factor for neurons of the peripheral sensory sympathetic and ciliary ganglia. It has been reported that CNTF could be an agent that has therapeutic potential and possibly induces differentiation of large multipolar ganglionic phenotype in a subset of progenitors. Name: CNTF
Gene ID:	25707
UniProt:	P20294
Pathways:	JAK-STAT Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months.|After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

