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Human recombinant CNTF (Ciliary neurotrophic factor) protein, AF

Catalog Number: PROTP26441-8

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Overview

Product Name	Human recombinant CNTF (Ciliary neurotrophic factor) protein, AF
Description	Ciliary neurotrophic factor (CNTF) is the member of IL-6 cytokine family and expressed in the nervous system. CNTF is 22.9 kDa neurotrophic factor containing 200 residues, which shows multiple effects in vertebrate retinogenesis. Besides, CNTF acts as a promoter that not only accelerates adult neurogenesis but also increases the survival of neuron after injury. On the other hands, reducing number of hippocampal GABAergic interneurons, as well as 5-HT levels and 5-HT1A receptor expression has been found in CNTF knockout female mice, indicating that CNTF may influence affective behavior in females by regulation of neurotransmission.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 23.74 kDa. The protein migrates as 25 kDa under reducing condition (SDS-PAGE analysis).

Activity

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Measure by its ability to induce proliferation in TF-1 cells. The ED_{50} for this effect is <0.15 ug/mL.

Endotoxin

<0.01 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVASTDQWSELTEAERLQENLQAYRTFHVLLARLLEDQQVHFT
PTEGDFHQAIHTLLLQVAAFAYQIEELMILLEYKIPRNEADGMPINVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRFISSHQTGIPARGSHYIANNKK
M with polyhistidine tag at the C-terminus

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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