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Product datasheet for TP728172L

Recombinant CNTF (Ciliary neurotrophic factor), Human

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant CNTF (Ciliary neurotrophic factor), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVASTDQWSELTEAE RLQENLQAYRTFHVLLARLLEDQQVHFTPTEGDFHQAIHTLLLQVAAFAYQIEELMILLEYKIPRNEADGM PINVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRFISSHQTGIPARGSHYIANNKKM with polyhistidine tag at the C-terminus
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 23.74 kDa. The protein migrates as 25 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 7.4.
Bioactivity:	Measure by its ability to induce proliferation in TF-1 cells. The ED_{50} for this effect is <0.15 μg/mL.
Endotoxin:	<0.01 EU per 1 μg of the protein by the LAL method.
Reconstitution Method:	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 μg/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.
Applications:	Cell culture
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.
UniProt ID:	P26441
Synonyms:	HCNTF

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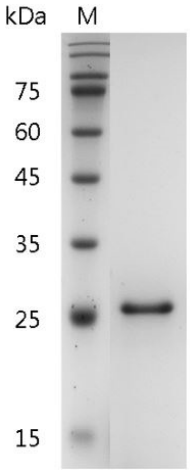
Summary: Ciliary neurotrophic factor (CNTF) is the member of IL-6 cytokine family and expressed in the nervous system. CNTF is 22.9 kDa neurotrophic factor containing 200 residues, which shows multiple effects in vertebrate retinogenesis. Besides, CNTF acts as a promoter that not only accelerates adult 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.

Product images:



SDS- PAGE analysis of recombinant human CNTF

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