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Product datasheet for PH322331

CNTF (NM_000614) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CNTF MS Standard C13 and N15-labeled recombinant protein (NP_000605)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222331
Predicted MW:	22.8 kDa
Protein Sequence:	>RC222331 representing NM_000614 Red=Cloning site Green=Tags(s) MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVASTDQWSELTEA ERLQENLQAYRTFHVLLARLLEDQQVHFTPTEGDFHQAIHTLLLQVAAFAYQIEELMILLEYKIPRNEAD GMPINVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRFISSHQTGIPARGSHYIANNKKM TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000605
RefSeq Size:	1891
RefSeq ORF:	600
Synonyms:	HCNTF
Locus ID:	1270
UniProt ID:	P26441

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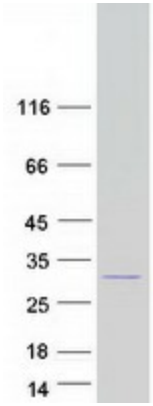
Cytogenetics: 11q12.1

Summary: The protein encoded by this gene is a polypeptide hormone whose actions appear to be restricted to the nervous system where it promotes neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. The protein is a potent survival factor for neurons and oligodendrocytes and may be relevant in reducing tissue destruction during inflammatory attacks. A mutation in this gene, which results in aberrant splicing, leads to ciliary neurotrophic factor deficiency, but this phenotype is not causally related to neurologic disease. A read-through transcript variant composed of the upstream ZFP91 gene and CNTF sequence has been identified, but it is thought to be non-coding. Read-through transcription of ZFP91 and CNTF has also been observed in mouse. [provided by RefSeq, Oct 2010]

Protein Families: Druggable Genome

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

Product images:



Coomassie blue staining of purified CNTF protein (Cat# [TP322331]). The protein was produced from HEK293T cells transfected with CNTF cDNA clone (Cat# [RC222331]) using MegaTran 2.0 (Cat# [TT210002]).