

Datasheet for ABIN1589602 **CNTF Protein**



Overview

Quantity:	5 µg
Target:	CNTF
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Alternative Name:

Purpose:	CNTF
Sequence:	AFAEQTPLTL HRRDLCSRSI WLARKIRSDL TALMESYVKH QGLNKNINLD SVDGVPVAST
	DRWSEMTEAE RLQENLQAYR TFQGMLTKLL EDQRVHFTPT EGDFHQAIHT LMLQVSAFAY
	QLEELMVLLE QKIPENEADG MPATVGDGGL FEKKLWGLKV LQELSQWTVR SIHDLRVISS
	HQMGISALES HYGAKDKQM
Specificity:	Chromosomal location:1q43
Characteristics:	Length (aa):199
Purity:	> 98 % by SDS-PAGE
Endotoxin Level:	< 0.1 ng per µg of CNTF
Target Details	
Target:	CNTF

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CNTF (CNTF Products)

Target Detail	S
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Background:

Ciliary neurotrophic factor (CNTF) is a polypeptide initially purified from chick embryo ocular tissue and identified as a trophic factor for embryonic chick ciliary parasympathetic neurons in culture. Subsequent studies have demonstrated that CNTF is a survival factor for additional neuronal cell types including: primary sensory neurons, motor neurons, basal forebrain neurons and type 2 astrocytes. CNTF has also been shown to prevent the degeneration of motor axons after axotomy. The cDNA for CNTF encodes a 200 amino acid residue polypeptide that lacks a signal sequence. CNTF is highly conserved across species and exhibits cross-species activities. Human and rat CNTF share approximately 83% homology in their protein sequence. CNTF is structurally related to IL6, IL11, LIF, and OSM. All of these four helix bundle cytokines share gp130 as a signal-transducing subunit in their receptor complexes. The cDNA for recombinant rat CNTF (Ala2-Met200) was cloned from total RNA of a rat embryo using standard protocols. Ciliary Neurotrophic Factor (CNTF) is a potent neural factor that was originally characterized as a survivability factor for chick ciliary neurons in vitro. More recently, CNTF has been shown to promote survivability and differentiation of other neuronal cell types. Rat CNTF is a 22.7 kDa protein containing 199 amino acid residues. Synonyms: Cntf

Molecular Weight:	22.7 kDa
Gene ID:	25707
NCBI Accession:	NM_013166, NP_037298
UniProt:	P20294
Pathways:	JAK-STAT Signaling

Application Details

Application Notes:	Measured in a cell proliferation assay using TF1 human erythroleukemic cells [Kitamura T et al, J Cell Physiol 140, 1989). The ED50 for this effect is typically 3 - 15 ng/mL.
Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Rat CNTF should be reconstituted in PBS to a concentration of 0.1 mg/mL. This solution can be
	diluted in water or other buffered solutions.

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Buffer:	5 mM sodium acetate, pH 6.5
Storage:	RT,-20 °C
Storage Comment:	The lyophilized powder although stable at room temperature for 3 weeks, is best stored desiccated at -20°C. Reconstituted rat CNTF should be stored in working aliquots at -20°C. For
	long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).