

CNTF active protein

Rat CNTF

CATALOG # AAA79301	HOST E Coli	REACTIVITY Rat
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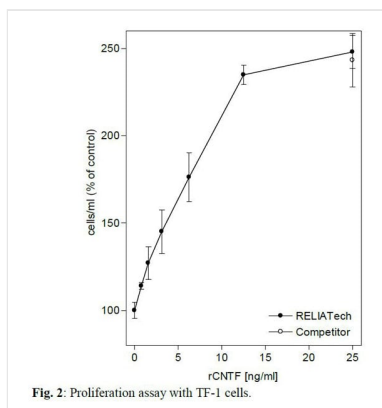
PRODUCT SYNONYMS

CNTF; Rat CNTF; Recombinant Rat Ciliary Neurotrophic Factor (CNTF); Ciliary Neurotrophic Factor; CNTF active protein

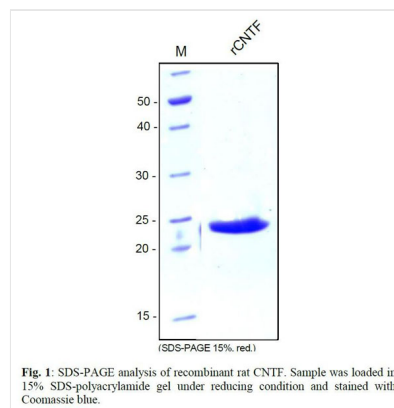
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Rat
Purity/Purification	> 98% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	AFAEQTPLTL HRRDLCSRSI WLARKIRSDL TALMESYVKH QGLNKNINLD SVDGVPVAST DRWSEMTEAE RLQENLQAYR TFQGMTLTKLL EDQRVHFTPT EGDHFQAIHT LMLQVSAFAY QLEELMVLLE QKIPENEADG MPATVGDGGL FEKKLWGLKV LQELSQWTVR SIHDLRVISS HQMGISALES HYGAKDKQM
Sequence Length	199
Endotoxin Level	< 0.1ng per ug of CNTF
Buffer	5 mM sodium acetate, pH 6.5
Preparation and Storage	The lyophilized powder although stable at room temperature for 3 weeks, is best stored desiccated at -20 degree C. Reconstituted rat CNTF should be stored in working aliquots at -20 degree C. For long term storage it is recommended to add a carrier protein (0.1% HAS or BSA).

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CNTF active protein	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.
Product Categories/Family for CNTF active protein	Cytokines & Growth Factors
References	1. Finn T and Nishi R, Perspect Dev Neurobiol 4, 1996. 2. Sendtner M et al, J Neurol Sci 124 Suppl:77-83, 1994. 3. Sendtner M et al, J Cell Sci Suppl 15, 1991.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978675
NCBI GeneID	25707
NCBI Accession #	NP_037298.1
NCBI GenBank Nucleotide #	NM_013166.1
UniProt Accession #	P20294
Molecular Weight	22,7 kDa
NCBI Official Full Name	ciliary neurotrophic factor
NCBI Official Synonym Full Names	ciliary neurotrophic factor
NCBI Official Symbol	Cntf
NCBI Protein Information	ciliary neurotrophic factor; ciliary neurotropic factor
UniProt Protein Name	Ciliary neurotrophic factor
UniProt Gene Name	Cntf
UniProt Synonym Gene Names	CNTF
UniProt Entry Name	CNTF_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-rat-active-protein/cntf/79301>