

CNTF active protein

Recombinant Rat CNTF

CATALOG #
AAA214336

HOST
E Coli

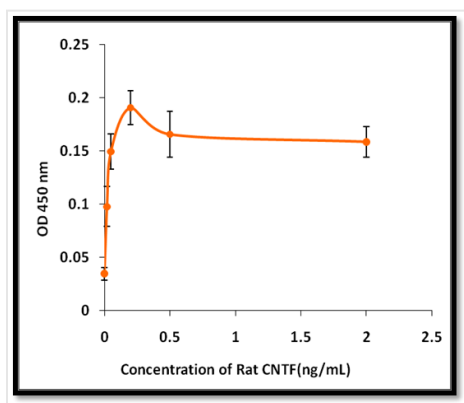
PRODUCT SYNONYMS

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

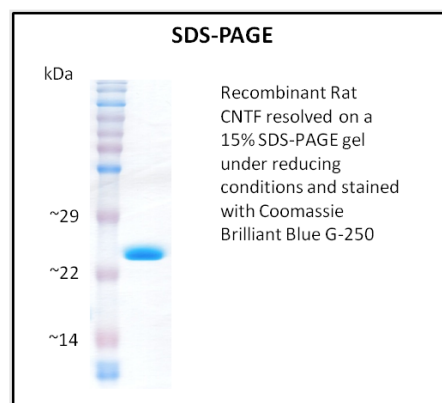
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from a 0.2 um filtered PBS pH 7.5.
Sequence Length	200
Bioactivity	The ED(50) was determined by the dose-dependent proliferation of human TF1 cells was found to be in the range of 2-10 ng/ml.
Endotoxin Level	<1.0 EU/ug of recombinant protein as determined by the LAL method.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Preparation and Storage	The lyophilized protein is stable for at least one year from date of receipt at -70 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CNTF active protein	CNTF is found predominantly in peripheral nerve tissues. The main source appears to be myelin-associated Schwann cells in peripheral nerves and astrocytes in the central nervous system. CNTF is present at very high concentrations within intraocular tissues that contain the same muscle cells innervated by ciliary ganglionic neurons in vivo. CNTF receptors are expressed exclusively in the nervous system and skeletal muscle. The alpha subunit of the receptor is anchored to the cell membrane by a glycosyl-phosphatidylinositol linkage. The other receptor subunit, known as gp130, is also a component of receptors for LIF, Oncostatin M, IL-6 and IL-11, and seems to be involved also in signaling for CT-1. CNTF induces the expression of genes encoding hepatic acute phase proteins such as Haptoglobin, Alpha-1-antichymotrypsin, Alpha-2-Macroglobulin and Beta-fibrinogen in human hepatoma cells (HepG2) and in primary rat hepatocytes with a time course and dose-response comparable with that of IL-6.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6978675
NCBI GeneID	25707
NCBI Accession #	NP_037298.1
NCBI GenBank Nucleotide #	NP_037298.1
UniProt Accession #	P20294
Molecular Weight	22.0 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
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.