

Rat CNTF ELISA Kit | CNTF elisa kit

Rat CNTF PicoKine ELISA Kit

CATALOG #
AAA45921

REACTIVITY
Rat

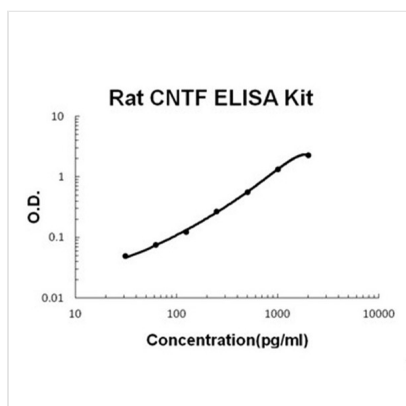
PRODUCT SYNONYMS

CNTF; Rat CNTF PicoKine ELISA Kit; Ciliary neurotrophic factor; ciliary neurotrophic factor; AI429687; Ciliary Neurotrophic Factor; HCNTF; MGC41235; OTTHUMP00000174731; OTTMUSP00000029848; CNTF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat CNTF
Sequence Length	200
Samples	Cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Assay Type	Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Rat CNTF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CNTF elisa kit	Principle of the assay: Rat CNTF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CNTF has been precoated onto 96-well plates. Standards(E.coli, A2-M200) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CNTF is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat CNTF amount of sample captured in plate. Background: Ciliary neurotrophic factor (CNTF) is a potent polypeptide hormone whose actions appear to be restricted to the nervous system where it promotes survival, neurotransmitter synthesis and neurite outgrowth in certain neuronal populations. The hCNTF gene is located on chromosome 11, as determined using human-hamster somatic cell hybrids. The CNTF protein is highly conserved in evolution. The amino acid (aa) sequences of rat and rabbit CNTF translated from cDNAs display approx. 85% homology with the deduced aa sequence encoding hCNTF. CNTF induces weight loss and improves glucose tolerance in humans and rodents. CNTF is thought to act centrally by inducing hypothalamic neurogenesis to modulate food intake and peripherally by altering hepatic gene expression, in a manner similar to that of leptin.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116587
NCBI GeneID	25707
UniProt Accession #	P20294
Molecular Weight	22,854 Da
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.