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CNTF ELISA Kit





Overview

Quantity:	1 kit
Target:	CNTF
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: Al429687, Ciliary Neurotrophic Factor, HCNTF, MGC41235, OTTHUMP00000174731, OTTMUSP00000029848

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.

Gene Name: CNTF

Production: Natural and recombinant rat CNTF. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: A2-M200

Target Details

Target:	CNTF
Alternative Name:	CNTF (CNTF Products)
Gene ID:	25707
NCBI Accession:	NP_037298
UniProt:	P20294
Pathways:	JAK-STAT Signaling

Application Details

Ann	lication	Notes:

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL rat CNTF standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. We recommend that each rat CNTF standard solution and each sample is measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 31.2pg/mL-2000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

Handling

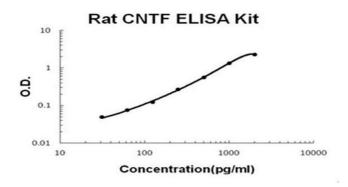
Storage: RT,4 °C,-20 °C

Handling

Storage Comment:

Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image1. RatCNTFAccusignalELISAKitRatCNTFAccuSignalElisaKitstandardcurve.AssayRange: 31.2pg/ml-2000pg/ml.Sensitivity: <10pg/ml.</td>