

## Datasheet for KOA0155

# Rat CNTF ELISA Kit

### Overview

<b>Description:</b>	Rat CNTF AccuSignal ELISA Kit - KOA0155
<b>Item No.:</b>	KOA0155
<b>Size:</b>	1 Kit
<b>Applications:</b>	ELISA
<b>Reactivity:</b>	Rat
<b>Range:</b>	31.2 pg/ml - 2000 pg/ml

### Product Details

<b>Background:</b>	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.
<b>Synonyms:</b>	AI429687, Ciliary Neurotrophic Factor, HCNTF, MGC41235, OTTHUMP00000174731, OTTMUSP00000029848
<b>Detection Kit Type:</b>	ELISA Kit
<b>Detection Range:</b>	31.2 pg/ml - 2000 pg/ml
<b>Sensitivity:</b>	<10 pg/ml

### Target Details

<b>Gene Name:</b>	CNTF
<b>Reactivity:</b>	Rat
<b>Immunogen:</b>	Expression system for standard: E.coli; Immunogen sequence: A2-M200

**Purity/Specificity:** Natural and recombinant rat CNTF. There is no detectable cross-reactivity with other relevant proteins.

**Relevant Links:**

- [UniProtKB - P20294](#)
- [NCBI - NP\\_037298.1](#)
- [GeneID - 25707](#)
- [KOA0155 Protocol](#)

## Application Details

**Tested Applications:** ELISA

**Application Note:** Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

## Formulation

**Anticoagulant:** Heparin Sodium

## Shipping & Handling

**Shipping Condition:** Wet Ice

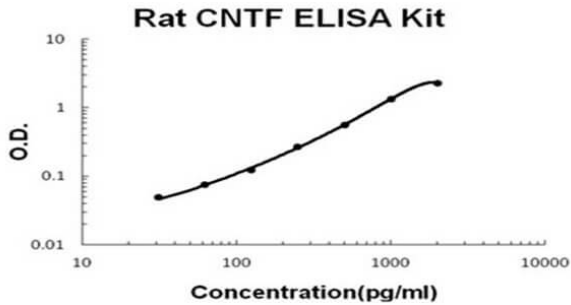
**Storage Condition:** Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months.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

**Expiration:** See kit insert for complete instructions.

## Images

**ELISA**

Rat CNTF AccuSignal Elisa Kit standard curve. Assay  
Range: 31.2pg/ml-2000pg/ml. Sensitivity: <10pg/ml.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.