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Datasheet for KOA0181

Rat GDNF ELISA Kit

Overview

Description:	Rat GDNF AccuSignal ELISA Kit - KOA0181
Item No.:	KOA0181
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

Background:	Glial cell line-derived neurotrophic factor(GDNF) is a glycosylated, disulfide-bonded homodimer that is a distantly related member of the transforming growth factor-beta superfamily. GDNF, is a potent neurotrophic factor that promotes the survival of dopaminergic neurones in cultures including embryonic neuronal cultures. GDNF, in addition to its potential role in the differentiation and survival of central nervous system neurons, has profound effects on kidney organogenesis and the development of the peripheral nervous system.3 GDNF may have utility in the treatment of Parkinson's disease, which is marked by progressive degeneration of midbrain dopaminergic neurons. GDNF lies on the short arm of human chromosome 5, at 5p13.1-p13.3 ability to promote dopamine uptake in midbrain cultures. The standard product used in this kit is recombinant rat GDNF, which is a dimmer composed of two chains with 134 amino acids.
Synonyms:	Astrocyte derived trophic factor, ATF, ATF1, ATF2, Glial cell line derived neurotrophic factor, HFB1 GDNF, hGDNF, HSCR4
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<4 pg/ml

Target Details

Gene Name:	GDNF
Reactivity:	Rat

Immunogen:	Expression system for standard: NSO; Immunogen sequence: S78-I211
Purity/Specificity:	Natural and recombinant rat GDNF. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - A7UGJ1 • NCBI - NP_062012.1 • GeneID - 25453 • KOA0181 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 GDNF 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) to each empty well. We recommend that each rat GDNF 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.

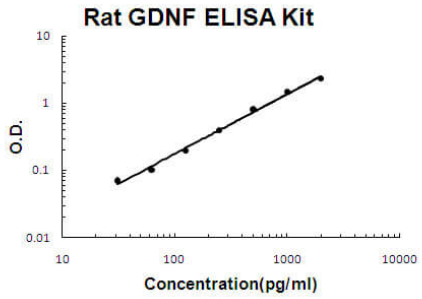
Formulation

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 GDNF AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <4pg/ml.

Disclaimer

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