Human VGF nerve growth factor inducible (VGF) ELISA Kit

Catalog No: #EK5865

Package Size: #EK5865-1 48T #EK5865-2 96T

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Description

Product Name	Human VGF nerve growth factor inducible (VGF) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	neuro-endocrine specific protein VGF|neurosecretory protein VGF
Accession No.	O15240
Uniprot	O15240
GeneID	7425;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:78.1-5000 pg/mL

Sensitivity:28 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate VGF in samples. An antibody specific for VGF has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyVGF present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VGF is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VGF bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:VGF or VGF nerve growth factor inducible is a protein and neuropeptide that may play a role in regulating energy homeostasis, metabolism and synaptic plasticity. The protein was first discovered in 1985 by Lewi et al. in an experiment with PC12 cells and its name is non-acronymic. VGF gene encodes a precursor which is divided by proteolysis to polypeptides of different mass, which have a variety of functions, the best studied of which is the role of TLQP-21 in the control of appetite and inflammation. The expression of VGF and VGF-derived peptides is detected in a subset of neurons in the central and peripheral nervous systems and specific populations of endocrine cells in the adenohypophysis, adrenal medulla, gastrointestinal tract, and pancreas.

Note: This product is for in vitro research use only