

Human Growth Hormone Releasing Peptide (GHRP) ELISA Kit

Catalog No: #EK11902

Package Size: #EK11902-1 48T #EK11902-2 96T

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Description

Product Name	Human Growth Hormone Releasing Peptide (GHRP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.055 ng/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:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate GHRP in samples. An antibody specific for GHRP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGHRP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GHRP 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 GHRP bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Growth hormone secretagogue receptor is a G protein-coupled receptor which binds ghrelin and plays a role in energy homeostasis and regulation of body weight.Ghrelin is an appetite-regulating factor secreted from peripheral organs which is involved in regulation of energy homeostasis via binding to the receptor resulting in the secretion of growth hormone by the pituitary gland. The pathway activated by binding of Ghrelin to the Growth hormone secretagogue receptor, GHSR1a, regulates the activation of the downstream mitogen-activated protein kinase, Akt, nitric oxide synthase, and AMPK cascades in different cellular systems. One of the important features of GHSR1a displays constitutive activity possessing basal activity in the absence of an agonist, resulting in a high degree of receptor internalization as well as of signaling activity.

Note: This product is for in vitro research use only