

QRFP-26RFa (human) ELISA kit #A05037

KEY INFORMATION

- Non radioactive ELISA kit
- Quality Control included
- Cost effective



GENERAL INFORMATION

The QRFP-26RFa is a neuropeptide of 26 amino acids from the RFamides family (neuropeptide with an arginine and an amidated phenylalanine-motif at its C-end).

The QRFP-26RFa has been discovered in 2003 in the brain of European green frog. Since this date the 26RFa has been characterized in many species like human, rat and chicken. The structural analysis of the peptide exhibits an amphipathic α -helix in its central domain that plays a role in the interaction with its receptor: GPR103. The QRFP-26RFa is mainly produced in the hypothalamus and in some peripheral tissues like the brainstem or the lateral horns of the spinal cord. In vivo studies in mice proved that the QRFP-26RFa is an orexigenic peptide by action on the NPY/proopiomelanocortin system and by inhibition of the glucose-induced insulin secretion. QRFP-26RFa has an action on the regulation of lipolysis in adipocyte of obese individual. Moreover, some researchers study the roles of the QRFP-26RFa in sleep regulation and in blood pressure regulation.

FOCUS ON THE ASSAY

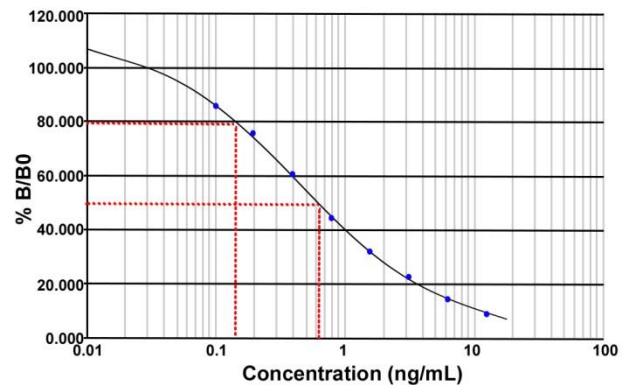
This Enzyme Immunometric Assay (ELISA) is based on the competition between unlabelled QRFP-26RFa (standard/QC/samples) and acetylcholinesterase (AChE) labelled QRFP-26RFa (tracer) for limited specific rabbit anti-26RFa antiserum sites.

The complex rabbit antiserum – QRFP-26RFa (free QRFP-26RFa or Tracer) binds to the mouse monoclonal anti-rabbit antibody coated in the well. The plate is washed to remove any unbound reagent, and Ellman's Reagent (enzymatic substrate for AChE and chromogen) is added to the wells. AChE tracer acts on the Ellman's Reagent to form a yellow compound that strongly absorbs at 414 nm. The intensity of the colour, determined by spectrophotometry, is proportional to the amount of tracer bound to the well and is inversely proportional to the amount of free QRFP-26RFa (human) present in the well during the immunological incubation.

TECHNICAL DATA

- Media Application: Plasma
- Preanalytical phase: Extraction required on Sep-Pak C18 cartridge
- Specificity:

26RFa (mouse/rat):	10.0 %
43RFa (human):	37.3%
43RFa (mouse/rat):	2.6 %
- Sample volume: 50 µL
- Standard Curve Range: 0.10-12.50 ng/mL
- Limit of detection: 0.07 ng/mL
- IC50: 0.62 ng/mL
- Size: 96 wells
- Shipping: dry ice
- Stability: store at -20°C
- Shelf life: 15 months after production



RELATED PRODUCTS

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Leptin (human) ELISA kit	cat# A05175	Leptin (mouse, rat) ELISA kit	cat# A05176
AFABP (human) ELISA kit	cat# A05181	Leptin Receptor (h) ELISA kit	cat# A05175
Resistin (human) ELISA kit	cat# A05177	Resistin (rat) ELISA kit	cat# A05179
Adiponectin (mouse) ELISA kit	cat# A05187	Insulin (mouse, rat) ELISA kit	cat# A05105
Sampling tubes with PHMB	cat# D31009		
Growth Hormone (rat) ELISA kit	cat# A05104		
Adiponectin (human) ELISA kit	cat# A05185		
Adiponectin High Sensitivity (human) ELISA kit	cat# A05186		

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