

Rat Neuropeptide Y (NPY) ELISA Kit | NPY elisa kit

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CATALOG #
AAA330227

REACTIVITY
Rat

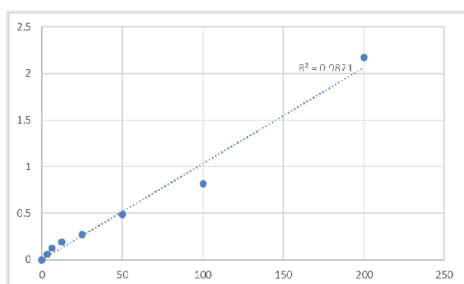
PRODUCT SYNONYMS

Neuropeptide Y (NPY); Rat Neuropeptide Y (NPY) ELISA Kit; PYY4; OTTHUMP00000201946; OTTHUMP00000201947; NPY elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Neuropeptide Y (NPY) ELISA Kit has high sensitivity and excellent specificity for detection of Rat NPY. No significant cross-reactivity or interference between Rat NPY and analogues was observed.
Sequence Length	36
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Rat Neuropeptide Y (NPY) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for NPY elisa kit	Description: This Rat Neuropeptide Y (NPY) ELISA Kit employs a two-site sandwich ELISA to quantitate NPY in samples. An antibody specific for NPY has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any NPY present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NPY 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 NPY bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Neuropeptide Y (NPY) is a 36 amino acid peptide neurotransmitter found in the brain and autonomic nervous system.NPY is a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk factor for various metabolic and cardiovascular diseases.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	54037899
NCBI GeneID	100301542
UniProt Accession #	P68006
NCBI Official Full Name	Neuropeptide Y
NCBI Official Symbol	NPY
NCBI Protein Information	neuropeptide Y
UniProt Protein Name	Neuropeptide Y
UniProt Gene Name	NPY
UniProt Synonym Gene Names	NPY

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/neuropeptide-y-npy/330227>