

Human Melatonin receptor type 1A (MTNR1A) ELISA Kit | MTNR1A elisa kit

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CATALOG #
AAA245805

REACTIVITY
Human

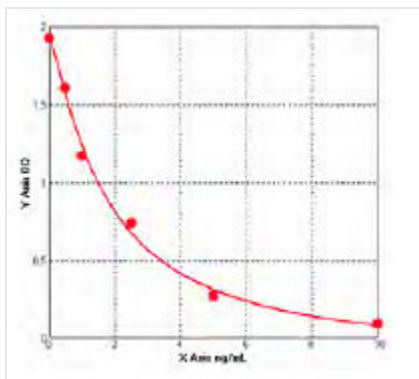
PRODUCT SYNONYMS

Melatonin receptor type 1A (MTNR1A); Human Melatonin receptor type 1A (MTNR1A) ELISA Kit; MTNR1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of MTNR1A. No significant cross-reactivity or interference between MTNR1A and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between MTNR1A and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MTNR1A elisa kit	Intended Uses: This MTNR1A ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of HumanMTNR1A. This ELISA kit for research use only! Principle of the Assay: MTNR1A ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-MTNR1A antibody and an MTNR1A-HRP conjugate. The assay sample and buffer are incubated together with MTNR1A-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the MTNR1A concentration since MTNR1A from samples and MTNR1A-HRP conjugate compete for the anti-MTNR1A antibody binding site. Since the number of sites is limited, as more sites are occupied by MTNR1A from the sample, fewer sites are left to bind MTNR1A-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The MTNR1A concentration in each sample is interpolated from this standard curve.
Product Categories/Family for MTNR1A elisa kit	Neurobiology

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174593
NCBI GeneID	4543
NCBI Accession #	NP_005949.1
NCBI GenBank Nucleotide #	NM_005958.3
Molecular Weight	39,375 Da
NCBI Official Full Name	melatonin receptor type 1A
NCBI Official Synonym Full Names	melatonin receptor 1A
NCBI Official Symbol	MTNR1A
NCBI Official Synonym Symbols	MT1; MEL-1A-R
NCBI Protein Information	melatonin receptor type 1A; mel1a receptor
UniProt Protein Name	Melatonin receptor type 1A
UniProt Gene Name	MTNR1A
UniProt Synonym Gene Names	Mel-1A-R; Mel1a receptor
UniProt Entry Name	MTR1A_HUMAN

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/human-elisa-kits/melatonin-receptor-type-1a-mtnr1a/245805>