

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

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CATALOG #
AAA66822

REACTIVITY
Human

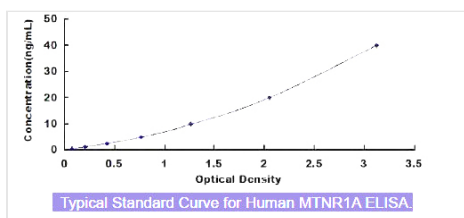
PRODUCT SYNONYMS

Melatonin Receptor 1A (MTNR1A); Human Melatonin Receptor 1A (MTNR1A) ELISA Kit; MT1 MEL-1A-R; 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.
Sequence Length	350
Samples	Human tissue homogenates, cell lysates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.625-40ng/mL
Sensitivity	< 0.219ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level MTNR1A were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level MTNR1A were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MTNR1A elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of MTNR1A in human tissue homogenates, cell lysates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to MTNR1A. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to MTNR1A. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain MTNR1A, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of MTNR1A in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5174593
NCBI GeneID	4543
NCBI Accession #	NP_005949.1
NCBI GenBank Nucleotide #	NM_005958.4
UniProt Accession #	P48039; A0AVC5; B0M0L2
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
UniProt Protein Name	Melatonin receptor type 1A
UniProt Gene Name	MTNR1A
UniProt Synonym Gene Names	Mel-1A-R; Mel1a receptor

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.