

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

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CATALOG #
AAA139013

REACTIVITY
Human

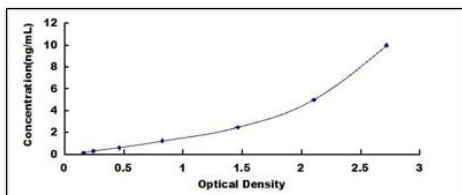
PRODUCT SYNONYMS

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 Melatonin Receptor 1A (MTNR1A). No significant cross-reactivity or interference between Melatonin Receptor 1A (MTNR1A) and analogues was observed.
Sequence Length	257
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Melatonin Receptor 1A (MTNR1A) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Melatonin Receptor 1A (MTNR1A) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MTNR1A elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Melatonin Receptor 1A (MTNR1A). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Melatonin Receptor 1A (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 Melatonin Receptor 1A (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 Melatonin Receptor 1A (MTNR1A) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for MTNR1A elisa kit	Endocrinology

NCBI AND UNIPROT INFORMATION

NCBI GI #	2130529
NCBI GeneID	539948
UniProt Accession #	O02769
Molecular Weight	29,370 Da
NCBI Official Full Name	melatonin receptor 1A, partial
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
UniProt Entry Name	MTR1A_BOVIN

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.