

Human Calcium Sensing Receptor (CASR) ELISA Kit | CASR elisa kit

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CATALOG #
AAA140700

REACTIVITY
Human

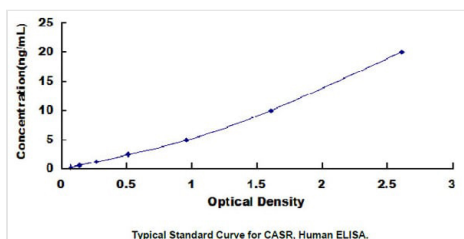
PRODUCT SYNONYMS

Calcium Sensing Receptor (CASR); Human Calcium Sensing Receptor (CASR) ELISA Kit; CAR; FHH; FIH; GPRC2A; HHC; HHC1; NSHPT; PCAR1; Parathyroid cell calcium-sensing receptor 1; Hypocalciuric Hypercalcemia 1; Severe Neonatal Hyperparathyroidism; CASR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CASR. No significant cross-reactivity or interference between CASR and analogues was observed.
Sequence Length	295
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.118ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CASR 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 CASR were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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 CASR elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CASR. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CASR. 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 CASR, 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 CASR in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CASR elisa kit	Metabolic pathway; Endocrinology; Neuroscience; Hormone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	86559371
NCBI GeneID	846
Molecular Weight	33,329 Da
NCBI Official Full Name	calcium sensing receptor, partial
NCBI Official Synonym Full Names	calcium-sensing receptor
NCBI Official Symbol	CASR
NCBI Official Synonym Symbols	CAR; FHH; FIH; HHC; EIG8; HHC1; NSHPT; PCAR1; GPRC2A; HYPOC1
NCBI Protein Information	extracellular calcium-sensing receptor
UniProt Protein Name	Calcium sensing receptor
UniProt Gene Name	CASR
UniProt Entry Name	Q2F3K4_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/calcium-sensing-receptor-casr/140700>