

Human Cholesterol-25-Hydroxylase (CH25H) ELISA Kit | CH25H elisa kit

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CATALOG #
AAA187060

REACTIVITY
Human

PRODUCT SYNONYMS

Cholesterol-25-Hydroxylase (CH25H); Human Cholesterol-25-Hydroxylase (CH25H) ELISA Kit; h25OH; Cholesterol 25-monooxygenase; CH25H elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CH25H. No significant cross-reactivity or interference between CH25H and analogues was observed.
Sequence Length	272
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates and other biological fluids
Detection Range	125-8,000pg/mL
Sensitivity	< 50pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CH25H 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 CH25H 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.

ADDITIONAL INFORMATION

Related Product Information for CH25H elisa kit

Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CH25H. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CH25H. 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 CH25H, 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 $\pm$ 10nm. The concentration of CH25H in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CH25H in human serum, plasma, tissue homogenates and other biological fluids.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502499
NCBI GeneID	9023

NCBI Accession #	NP_003947.1
NCBI GenBank Nucleotide #	NM_003956.3
UniProt Accession #	O95992 ; B2RBY3
Molecular Weight	31,745 Da
NCBI Official Full Name	cholesterol 25-hydroxylase
NCBI Official Synonym Full Names	cholesterol 25-hydroxylase
NCBI Official Symbol	CH25H
NCBI Official Synonym Symbols	C25H
NCBI Protein Information	cholesterol 25-hydroxylase
UniProt Protein Name	Cholesterol 25-hydroxylase
UniProt Gene Name	CH25H
UniProt Synonym Gene Names	h25OH

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://www.aaabiotech.com/human-elisa-kits/cholesterol-25-hydroxylase-ch25h/187060>