

Human 7-Dehydrocholesterol Reductase (DHCR7) ELISA Kit | DHCR7 elisa kit

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CATALOG #
AAA136505

REACTIVITY
Human

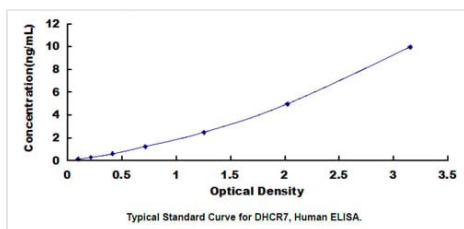
PRODUCT SYNONYMS

7-Dehydrocholesterol Reductase (DHCR7); Human 7-Dehydrocholesterol Reductase (DHCR7) ELISA Kit; DHCR-7; SLOS; D7SR; Smith-Lemli-Opitz Syndrome; Putative sterol reductase SR-2; Sterol Delta(7)-reductase; DHCR7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of 7-Dehydrocholesterol Reductase (DHCR7). No significant cross-reactivity or interference between 7-Dehydrocholesterol Reductase (DHCR7) and analogues was observed.
Sequence Length	475
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 7-Dehydrocholesterol Reductase (DHCR7) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level 7-Dehydrocholesterol Reductase (DHCR7) 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 DHCR7 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 7-Dehydrocholesterol Reductase (DHCR7). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to 7-Dehydrocholesterol Reductase (DHCR7). 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 7-Dehydrocholesterol Reductase (DHCR7), 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 7-Dehydrocholesterol Reductase (DHCR7) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for DHCR7 elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	255308875
NCBI GeneID	1717
NCBI Accession #	NP_001157289.1
NCBI GenBank Nucleotide #	NM_001163817.1
UniProt Accession #	Q9UBM7; O60492; O60717; B2R6Z2
Molecular Weight	54,489 Da
NCBI Official Full Name	7-dehydrocholesterol reductase
NCBI Official Synonym Full Names	7-dehydrocholesterol reductase
NCBI Official Symbol	DHCR7
NCBI Official Synonym Symbols	SLOS
NCBI Protein Information	7-dehydrocholesterol reductase
UniProt Protein Name	7-dehydrocholesterol reductase
UniProt Gene Name	DHCR7
UniProt Synonym Gene Names	D7SR; 7-DHC reductase
UniProt Entry Name	DHCR7_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/7-dehydrocholesterol-reductase-dhcr7/136505>