

General 7-Dehydrocholesterol (7-DHC) ELISA Kit | 7-DHC elisa kit

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CATALOG #
AAA188063

REACTIVITY
General

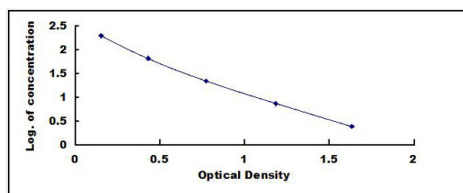
PRODUCT SYNONYMS

7-Dehydrocholesterol (7-DHC); General 7-Dehydrocholesterol (7-DHC) ELISA Kit; 7-DHC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of 7-Dehydrocholesterol (7-DHC). No significant cross-reactivity or interference between 7-Dehydrocholesterol (7-DHC) and analogues was observed.
Sequence Length	431
Assay Type	Competitive Inhibition
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids
Detection Range	2.47-200ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.93ng/mL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level 7-Dehydrocholesterol (7-DHC) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level 7-Dehydrocholesterol (7-DHC) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ 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 7-DHC elisa kit	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to 7-Dehydrocholesterol (7-DHC) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled 7-Dehydrocholesterol (7-DHC) and unlabeled 7-Dehydrocholesterol (7-DHC) (Standards or samples) with the pre-coated antibody specific to 7-Dehydrocholesterol (7-DHC). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of 7-Dehydrocholesterol (7-DHC) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of 7-Dehydrocholesterol (7-DHC) in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1540069959
NCBI Official Full Name	7-dehydrocholesterol reductase (7-DHC reductase) (Sterol Delta(7)-reductase) (protein DWARF 5)

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/general-elisa-kits/7-dehydrocholesterol-7-dhc/188063>