

Rat 17-Beta-Hydroxysteroid Dehydrogenase Type 3 (HSD17b3) ELISA Kit | HSD17b3 elisa kit

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CATALOG #
AAA149159

REACTIVITY
Rat

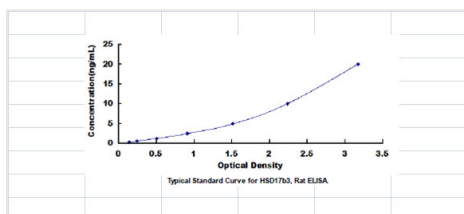
PRODUCT SYNONYMS

17-Beta-Hydroxysteroid Dehydrogenase Type 3 (HSD17b3); Rat 17-Beta-Hydroxysteroid Dehydrogenase Type 3 (HSD17b3) ELISA Kit; SDR12C2; EDH17B3; Short Chain Dehydrogenase/Reductase Family 12C; Member 2; Testosterone 17-Beta-Dehydrogenase 3; Testicular 17-beta-hydroxysteroid dehydrogenase; HSD17b3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of HSD17b3. No significant cross-reactivity or interference between HSD17b3 and analogues was observed.
Sequence Length	305
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.117ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HSD17b3 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 HSD17b3 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 HSD17b3 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of HSD17b3 in rat tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to HSD17b3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to HSD17b3. 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 HSD17b3, 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 spectro photometrically at a wavelength of 450nm +/- 10nm. The concentration of HSD17b3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for HSD17b3 elisa kit	Enzyme & Kinase
References	Inflammatory Modulation of miR-155 Inhibits Doxorubicin-Induced Testicular Dysfunction via SIRT1/FOXO1 Pathway: Insight into the Role of Acacetin and Bacillus cereus Protease; Appl Biochem Biotechnol; 2022 Nov;194(11):5196-5219.; PMID: 35715546; HEND MOHAMED ANWAR; Department of Biochemistry, National Organization for Drug Control & Research, Giza, 11221, Egypt.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1513310
NCBI GeneID	15487
Molecular Weight	34,330 Da
NCBI Official Full Name	17-beta-hydroxysteroid dehydrogenase type 3
NCBI Official Synonym Full Names	hydroxysteroid (17-beta) dehydrogenase 3
NCBI Official Symbol	Hsd17b3
NCBI Protein Information	testosterone 17-beta-dehydrogenase 3
UniProt Protein Name	Testosterone 17-beta-dehydrogenase 3
UniProt Gene Name	Hsd17b3
UniProt Synonym Gene Names	Edh17b3; 17-beta-HSD 3

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/rat-elisa-kits/17-beta-hydroxysteroid-dehydrogenase-type-3-hsd17b3/149159>