

Human Steroid 5 Alpha Reductase 2 (SRD5a2) ELISA Kit | SRD5a2 elisa kit

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CATALOG #
AAA20512

REACTIVITY
Human

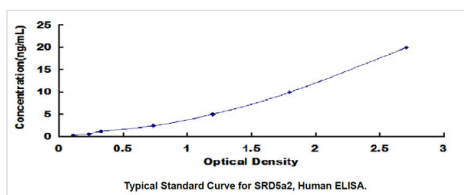
PRODUCT SYNONYMS

Steroid 5 Alpha Reductase 2 (SRD5a2); Human Steroid 5 Alpha Reductase 2 (SRD5a2) ELISA Kit; 3-Oxo-5 Alpha-Steroid Delta 4-Dehydrogenase Alpha 2; SRD5a2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SRD5a2. No significant cross-reactivity or interference between SRD5a2 and analogues was observed.
Sequence Length	254
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.134ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SRD5a2 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 SRD5a2 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 SRD5a2 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SRD5a2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SRD5a2. 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 SRD5a2, 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 SRD5a2 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 SRD5a2 in human serum, plasma, tissue homogenates and other biological fluids.
Product Categories/Family for SRD5a2 elisa kit	Enzyme & Kinase
References	Preliminary Reference Interval for 5-Alpha Reductase in Normal Male Children and Its Association with Hypospadias; J Appl Lab Med; 2022 Oct 29;7(6):1329-1336.; PMID: 35962645; Sanat Khanna; Department of Pediatric Surgery, Army Hospital (Research & Referral), New Delhi, India.

NCBI AND UNIPROT INFORMATION

NCBI GI #	338469
NCBI GeneID	6716
UniProt Accession #	P31213; Q2M1R4; Q9BYE6; B2RE87
Molecular Weight	28,393 Da
NCBI Official Full Name	steroid 5-alpha-reductase 2
NCBI Official Synonym Full Names	steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2)
NCBI Official Symbol	SRD5A2
NCBI Protein Information	3-oxo-5-alpha-steroid 4-dehydrogenase 2
UniProt Protein Name	3-oxo-5-alpha-steroid 4-dehydrogenase 2
UniProt Gene Name	SRD5A2
UniProt Synonym Gene Names	S5AR 2
UniProt Entry Name	S5A2_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.