

Rat Steroid 5-Alpha-Reductase 1 (SRD5A1) ELISA Kit

Catalog No: #EK6637



Package Size: #EK6637-1 48T #EK6637-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Rat Steroid 5-Alpha-Reductase 1 (SRD5A1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1 5-alpha reductase steroid 5-alpha-reductase type I steroid-5-alpha-reductase 1
Accession No.	P24008
Uniprot	P24008
GenID	24950;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.058 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate SRD5A1 in samples. An antibody specific for SRD5A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SRD5A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SRD5A1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SRD5A1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: SRD5a1 isozyme is not detectable in the fetus, is transiently expressed in newborn skin and scalp, and is permanently expressed in skin from the time of puberty. There was no qualitative difference in 5-alpha-reductase type 1 expression between adult balding versus nonbalding scalp. The type 2 isozyme was transiently expressed in skin and scalp of newborns. Type 2 is the predominant isozyme detectable in fetal genital skin, in male accessory sex organs, and in the prostate, including benign prostatic hyperplasia and prostate adenocarcinoma tissues. These results were considered consistent with 5-alpha-reductase type 1 being responsible for the virilization in type 2-deficient subjects during puberty and suggested that the type 2 isozyme may be an initiating factor in the development of male pattern baldness.

Note: This product is for in vitro research use only