

Active Recombinant Mouse SRD5A1 protein, His-GST-tagged

Cat. No. SRD5A1-1586M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse SRD5A1 protein(Q68FF9)(1-255 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	1-255 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Steroid 5 Alpha Reductase 1 (SRD5a1) a member of the steroid 5α-reductase family (SRD5A1, SRD5A2 and SRD5A3) converting testosterone into 5-alpha-dihydrotestosterone and progesterone or corticosterone into their corresponding 5-alpha-3-oxosteroids. It plays a central role in sexual differentiation and androgen physiology. SRD5A1 was mainly expressed in the skin, scalp, liver, and brain tissues. Prostatic Adenoma and Prostatic Hyperplasia are associated with SRD5A1. Besides, 17-Beta-Hydroxysteroid Dehydrogenase Type 3 (HSD17b3) has been identified as an interactor of SRD5a1, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse SRD5a1 and recombinant human HSD17b3. Briefly, biotin-linked SRD5a1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μl were then transferred to HSD17b3-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of recombinant mouse SRD5a1 and recombinant human HSD17b3 was shown, the EC50 for this effect is 0.03 ug/mL.

Molecular Mass	59.3kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

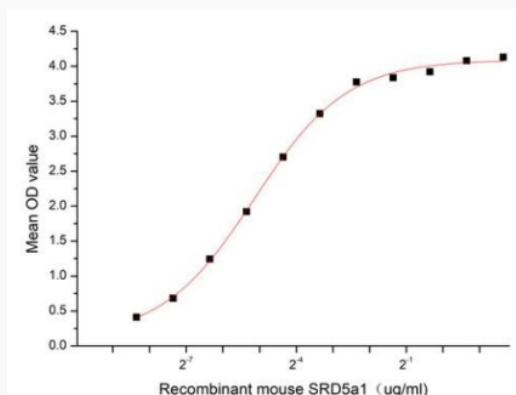
Gene Name	Srd5a1 steroid 5 alpha-reductase 1 [<i>Mus musculus</i>]
Official Symbol	SRD5A1
Synonyms	SRD5A1; steroid 5 alpha-reductase 1; Srd5a-1;
Gene ID	20786

 Tel: 1-631-559-9269 1-516-512-3133

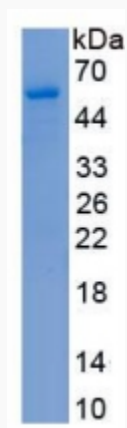
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Activity



SDS-PAGE



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA