

Active Recombinant Human HSD17B3 protein, His-tagged

Cat. No. HSD17B3-1407H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human HSD17B3 protein(P37058)(1-310 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-310 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	17-Beta-Hydroxysteroid Dehydrogenase Type 3 (HSD17b3) belongs to the HSD17B family with NAD(P)H/NAD(P) -dependent oxidoreductase activity that catalyzes the interconversion between 17-ketosteroids and 17-hydroxysteroids to maintain the balance between less potent (17-keto) and more potent (17 β -hydroxy) forms of estrogens and androgens. This isoform of 17 beta-hydroxysteroid dehydrogenase is expressed predominantly in the testis and catalyzes the conversion of androstenedione to testosterone. 3-oxo-5-alpha-steroid 4-dehydrogenase 2 (SRD5a2) is a enzyme which plays a central role in sexual differentiation and androgen physiology. A functional ELISA assay was conducted to detect the interaction of recombinant human HSD17b3 and recombinant human SRD5a2. Briefly, HSD17b3 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l were then transferred to SRD5a2-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-HSD17b3 pAb,

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then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant human HSD17b3 and recombinant human SRD5a2 was shown, the EC50 for this effect is 27.6 ng/mL.

Molecular Mass	38.2kDa
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	HSD17B3 hydroxysteroid (17-beta) dehydrogenase 3 [Homo sapiens]
Official Symbol	HSD17B3
Synonyms	HSD17B3; hydroxysteroid (17-beta) dehydrogenase 3; testosterone 17-beta-dehydrogenase 3; SDR12C2; short chain dehydrogenase/reductase family 12C; member 2; 17-beta-HSD3; 17-beta-HSD 3; 17-beta-hydroxysteroid dehydrogenase type 3; testicular 17-beta-hydroxysteroid dehydrogenase; short chain dehydrogenase/reductase family 12C, member 2; EDH17B3;

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Gene ID 3293

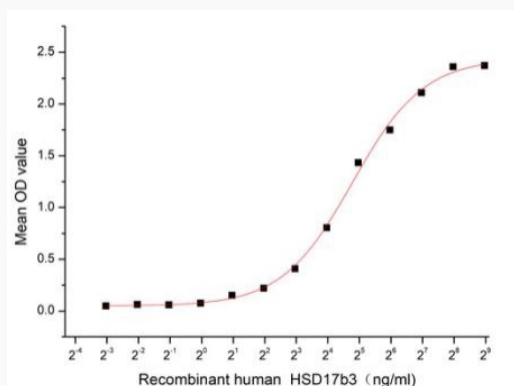
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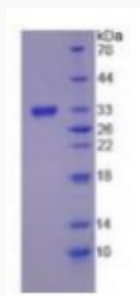
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UniProt ID P37058

Activity



SDS-PAGE



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