Active Recombinant Human HSD17B1 protein, His-tagged

Cat. No. HSD17B1-2404H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human HSD17B1 protein(P14061)(4-289 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	4-289 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Hydroxysteroid (17β) dehydrogenase 1 (HSD17b1) is a steroidogenic enzyme that especially catalyzes the conversion of low potent 17keto-steroids to highly potent 17β-hydroxysteroids. It has a dual function in estrogen activation and androgen inactivation and plays a major role in establishing the estrogen E2 concentration gradient between serum and peripheral tissues. Cytochrome P450 1B1 is involved in the metabolism of various endogenous substrates, including fatty acids, steroid hormones and vitamins. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human HSD17b1 and recombinant human CYP1B1. Briefly, HSD17b1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to CYP1B1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-HSD17B1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the

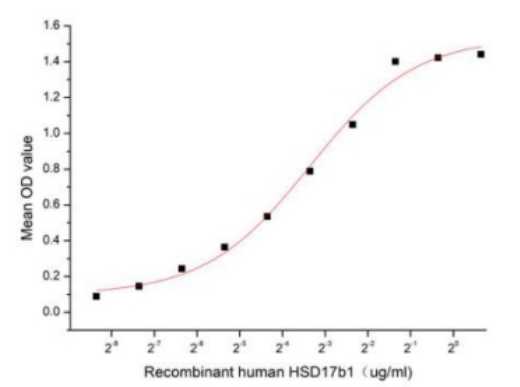
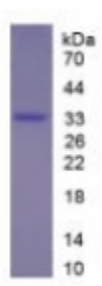
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	addition of substrate solution , wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human HSD17b1 and recombinant human CYP1B1 was shown, the EC50 for this effect is 0.098 ug/mL.
Molecular Mass	34.8kDa
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	HSD17B1 hydroxysteroid (17-beta) dehydrogenase 1 [Homo sapiens]
Official Symbol	HSD17B1
Synonyms	HSD17B1; hydroxysteroid (17-beta) dehydrogenase 1; EDH17B2, EDHB17; estradiol 17-beta-dehydrogenase 1; Estradiol 17 beta dehydrogenase 1; HSD17; MGC138140; SDR28C1; short chain dehydrogenase/reductase family 28CE; member 1; E2DH; 20-alpha-HSD; 17-beta-HSD 1; estradiol 17-beta-dehydrogenase-1; 20 alpha-hydroxysteroid dehydrogenase; 17-beta-hydroxysteroid dehydrogenase type 1; placental 17-beta-hydroxysteroid dehydrogenase; hydroxysteroid (17-beta) dehydrogenase 1 isoform; short chain dehydrogenase/reductase family 28CE, member 1; EDHB17; EDH17B2;

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Gene ID	3292
mRNA Refseq	NM_000413
Protein Refseq	NP_000404
MIM	109684
UniProt ID	P14061
Activity	
SDS-PAGE	

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