

Recombinant Human HSD17B6, GST-tagged

Cat. No. HSD17B6-13961H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSD17B6 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-317a.a.
Description	The protein encoded by this gene has both oxidoreductase and epimerase activities and is involved in androgen catabolism. The oxidoreductase activity can convert 3 alpha-adiol to dihydrotestosterone, while the epimerase activity can convert androsterone to epi-androsterone. Both reactions use NAD ⁺ as the preferred cofactor. This gene is a member of the retinol dehydrogenase family. Transcript variants utilizing alternative polyadenylation signals exist.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	HSD17B6 hydroxysteroid (17-beta) dehydrogenase 6 homolog (mouse) [Homo
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	sapiens]
Official Symbol	HSD17B6
Synonyms	HSD17B6; hydroxysteroid (17-beta) dehydrogenase 6 homolog (mouse); hydroxysteroid (17 beta) dehydrogenase 6; 17-beta-hydroxysteroid dehydrogenase type 6; 3(alpha >beta) hydroxysteroid epimerase; 3 hydroxysteroid epimerase; HSE; NAD+ dependent 3 alpha hydroxysteroid dehydrogenase; oxidative 3 alpha hydroxysteroid dehydrogenase; oxidoreductase; retinol dehydrogenase; RODH; SDR9C6; short chain dehydrogenase/reductase family 9C; member 6; 17-beta-HSD6; 17-beta-HSD 6; 3-alpha-> beta-HSE; 3-hydroxysteroid epimerase; beta-hydroxysteroid epimerase; 3(alpha-> beta)-hydroxysteroid epimerase; beta)-hydroxysteroid epimerase; oxidative 3-alpha hydroxysteroid dehydrogenase; oxidative 3-alpha-hydroxysteroid-dehydrogenase; short chain dehydrogenase/reductase family 9C, member 6; NAD+ -dependent 3 alpha-hydroxysteroid dehydrogenase 3-hydroxysteroid epimerase;
Gene ID	8630
mRNA Refseq	NM_003725
Protein Refseq	NP_003716
MIM	606623
UniProt ID	O14756
Chromosome Location	12q13
Pathway	Metabolic pathways, organism-specific biosystem; Retinol metabolism, organism-

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specific biosystem; Retinol metabolism, conserved biosystem; Steroid hormone biosynthesis, organism-specific biosystem; Steroid hormone biosynthesis, conserved biosystem;

Function

catalytic activity; electron carrier activity; estradiol 17-beta-dehydrogenase activity; nucleotide binding; oxidoreductase activity; retinol dehydrogenase activity; testosterone 17-beta-dehydrogenase (NAD+) activity;

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