Recombinant Human HSD17B8, His-tagged

Cat. No. HSD17B8-29342TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HSD17B8 with an N terminal His tag; 281 amino acids with the tag, predicted MWt: 29.1kDa.
Species	Human
Source	E.coli
ProteinLength	261 amino acids
Description	In mice, the Ke6 protein is a 17-beta-hydroxysteroid dehydrogenase that can regulate the concentration of biologically active estrogens and androgens. It is preferentially an oxidative enzyme and inactivates estradiol, testosterone, and dihydrotestosterone. However, the enzyme has some reductive activity and can synthesize estradiol from estrone. The protein encoded by this gene is similar to Ke6 and is a member of the short-chain dehydrogenase superfamily. An alternatively spliced transcript of this gene has been detected, but the full-length nature of this variant has not been determined.
Conjugation	HIS
Molecular Weight	29.100kDa inclusive of tags
Tissue specificity	Highly expressed in placenta, liver and pancreas, lower in the skeletal muscle and kidney. Widely expressed.

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

Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 40% Glycerol, 20mM Tris HCl, 150mM Sodium chloride, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MASQLQNRLR SALALVTGAG SGIGRAVSVR LAGEGATVAA CDLDRAAAQE TVRLLGGPGS KEGPPRGNHA AFQADVSEAR AARCLLEQVQ ACFSRPPSVV VSCAGITQDE FLLHMSEDDW DKVIAVNLKG TFLVTQAAAQ ALVSNGCRGS IINISSIVGK VGNVGQTNYA ASKAGVIGLT QTAARELGRH GIRCNSVLPG FIATPMTQKV PQKVVDKITE MIPMGHLGDP EDVADVVAFL ASEDSGYITG TSVEVTGGLF M
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.

GENE INFORMATION

Gene Name	HSD17B8 hydroxysteroid (17-beta) dehydrogenase 8 [Homo sapiens]
Official Symbol	HSD17B8
Synonyms	HSD17B8; hydroxysteroid (17-beta) dehydrogenase 8; FabG (beta ketoacyl [acyl carrier protein] reductase, E coli) like (E. coli) , FABGL; estradiol 17-beta-dehydrogenase 8; D6S2245E; H2 KE6; HKE6; KE6; RING2; SDR30C1; short chain dehydrogenase/reductase fa

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Gene ID	7923
mRNA Refseq	NM_014234
Protein Refseq	NP_055049
MIM	601417
Uniprot ID	Q92506
Chromosome Location	6p21.3
Pathway	Metabolic pathways, organism-specific biosystem; Steroid hormone biosynthesis, organism-specific biosystem; Steroid hormone biosynthesis, conserved biosystem;
Function	3-hydroxyacyl-CoA dehydrogenase activity; estradiol 17-beta-dehydrogenase activity; nucleotide binding; oxidoreductase activity; protein binding;

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