

Recombinant Human HSD17B8, His-tagged

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

SPECIFICATION

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| 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. |

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| Form | Liquid |
| Purity | >95% by SDS-PAGE |
| Storage buffer | Preservative: None Constituents: 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 KEGPPRGSHA AFQADVSEAR AARCLLEQVQ ACFSRPPSVV VSCAGITQDE FLLHMSEDDW DKVIAVNLKG TFLVTQAAAQ ALVSNGCRGS IINISSIVGK VGNVGQTNYA ASKAGVIGLT QTAARELGRH GIRCNSVLPG FIATPMTQKV PQKVVDKITE MIPMGHLGDP EDVADVVAFL ASED SGYITG 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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