

Recombinant Human hydroxysteroid (17-beta) dehydrogenase 1, His-tagged

Cat. No. HSD17B1-586H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HSD17B1, 1-328aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-328 a.a.
Description	Estradiol 17-beta-dehydrogenase 1, also known as HSD17B1, belongs to the short-chain dehydrogenases/reductases (SDR) family. This protein favors the reduction of estrogens and androgens. Recombinant human HSD17B1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	37.5kDa (352aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGS HMARTVV LITGCSSGIG LHLAVRLASD PSQSFKVYAT LRD LKTQGR L WEAARALACP PGSLET LQLD VRDSKSVAAA RERVTEGRVD VLVCNAGLGL LGPLEALGED AVASVLDVNV VGTVRMLQAF LPDMKRRGSG RVLVTGSVGG LMGLPFNDVY CASKFALEGL CESLAVLLLP FGVHLSLIEC GPVHTAFMEK VLGSPEEVLD RTDIHTFHRF YQYLAHSKQV

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FREAAQNPEE VAEVFLTALR APKPTLRYFT TERFLPLLRM RLDDPSGSNY
VTAMHREVFV DVPKAEAGA EAGGGAGPGA EDEAGRGAVG DPELGDPPAA PQ

Purity >90 % by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

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;

Gene ID [3292](#)

mRNA Refseq [NM_000413](#)

Protein Refseq [NP_000404](#)

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MIM	109684
UniProt ID	P14061
Chromosome Location	17q11-q21
Pathway	Estrogen biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem; Steroid Biosynthesis, organism-specific biosystem; Steroid hormone biosynthesis, organism-specific biosystem;
Function	catalytic activity; estradiol 17-beta-dehydrogenase activity; nucleotide binding; oxidoreductase activity;

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