

Recombinant Full Length Human HSD17B1 Protein, N-His-tagged

Cat. No. HSD17B1-145HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HSD17B1 Protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the 17beta-hydroxysteroid dehydrogenase family of short-chain dehydrogenases/reductases. 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. The encoded protein catalyzes the last step in estrogen activation, using NADPH to convert estrogens E1 and E2 and androgens like 4-androstenedione, to testosterone. It has an N-terminal short-chain dehydrogenase domain with a cofactor binding site, and a narrow, hydrophobic C-terminal domain with a steroid substrate binding site. This gene is expressed primarily in the placenta and ovarian granulosa cells, and to a lesser extent, in the endometrium, adipose tissue, and prostate. Polymorphisms in this gene have been linked to breast and prostate cancer. A pseudogene of this gene has been identified. Alternative splicing results in multiple transcript variants.
Form	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol,

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	1mM DTT.
Molecular Mass	37.5 kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMARTVV LITGCSSGIG LHLAVRLASD PSQSFKVYAT LRD LKTQGR L WEAARALACP PGSLETQLD VRDSKSVA A RERVTEGRVD VLVCNAGLGL LGPLEALGED AVASVLDVNV VGTVRMLQAF LPDMKRRGSG RVLVTGSGVGG LMGLPFNDVY CASKFALEGL CESLAVLLLP FGVHLSLIEC GPVHTAFMEK VLGSPEEVLD RTDIHTFHRF YQYLAHSKQV FREAAQNPEE VAEVFLTALR APKPTLRYFT TERFLPLLRM RLDDPSGSNY VTAMHREVFG DVPAKAEAGA EAGGGAGPGA EDEAGRGAVG DPELGDP PAA PQ
Purity	>90% by SDS-PAGE.
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 centigrade to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	lot specific
Preparation	Liquid purified protein
Protein Families	Druggable Genome
Protein Pathways	Androgen and estrogen metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

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Gene Name	HSD17B1 hydroxysteroid 17-beta dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	HSD17B1
Synonyms	E2DH; HSD17; EDHB17; EDH17B2; SDR28C1; 17-beta-HSD; 20-alpha-HSD
Gene ID	3292
mRNA Refseq	NM_000413.4
Protein Refseq	NP_000404.2
MIM	109684
UniProt ID	P14061

SDS-PAGE
