

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human HSD17B1 Protein, fused to His-tag at N-terminus, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p>
<b>Form</b>	<p>Presentation State: Purified            State: Liquid purified protein            Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol,</p>

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	1mM DTT.
<b>Molecular Mass</b>	37.5 kDa
<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MGSHMARTVV LITGCSSGIG LHLAVRLASD          PSQSFKVVYAT LRDLKTQGRL WEAARALACP PGSLETQLQD VRDSKSVAAA          RERVTEGRVD VLVCNAGLGL LGPLEALGED AVASVLDVNV VGTVRMLQAF          LPDMKRRGSG RVLVTGSVGG LMGLPFNDVY CASKFALEGL CESLAVLLLP          FGVHLSLIEC GPVHTAFMEK VLGSPEEVLDT RTDIHTFHRF YQYLAHASKQV          FREAAQNPEE VAEVFLTALR APKPTLRYFT TERFLPLLRM RLDDPSGSNY          VTAMHREVFG DVPAKAEAGA EAGGGAGPGA EDEAGRGAVG DPELGDPPAA PQ</p>
<b>Purity</b>	>90% by SDS-PAGE.
<b>Stability</b>	Shelf life: one year from despatch.
<b>Storage</b>	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.
<b>Concentration</b>	lot specific
<b>Preparation</b>	Liquid purified protein
<b>Protein Families</b>	Druggable Genome
<b>Protein Pathways</b>	Androgen and estrogen metabolism, Metabolic pathways
<b>Full Length</b>	Full L.

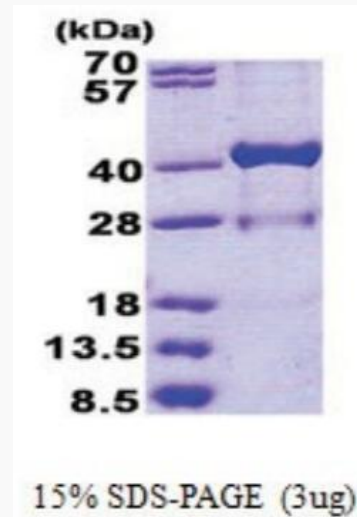
## GENE INFORMATION

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

**SDS-PAGE**


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