

Recombinant Full Length Human HSD17B1 Protein, GST-tagged

Cat. No. HSD17B1-3804HF Lot. No. (See product label)

SPECIFICATION

Product Overview

Human HSD17B1 full-length ORF (BAG54583.1, 1 a.a. - 328 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

328 amino acids

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. [provided by RefSeq, Sep 2016]

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Molecular Mass	61.4 kDa
AA Sequence	MARTVVLITGCSSGIGLHLAVRLASDPSQSFKVYATLRDLKTQGRLWEAARALACPP GSLETLQLDVRDSKSVAAARERVTEGRVDVLCNAGLGLLGPLEALGEDAVASVLD VNVVGTVRMLQAFLPDMKRRGSGRVLVTGSVGGMLGPFNDVYCASKFALEGLCE SLAVLLLPGFVHLSLIECGPVHTAFMEKVLGSPEEVLDRTDIHTFHRFYQYLAHSKQV FREAAQNPEEVAEVFLTALRAPKPTLRYFTTERFLPLLRMLDDPSGSNYVTAMHRE VFGDVPKAEAGAEAGGGAGPGAEDEAGRSVAVGDPELGDPPAAPQ
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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;

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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](#)

MIM [109684](#)

UniProt ID [P14061](#)

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