

# 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]

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HSD17B1 hydroxysteroid (17-beta) dehydrogenase 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b> | HSD17B1                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | 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; |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA