

## Product datasheet for TP311135

### HSD17B1 (NM\_000413) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Human hydroxysteroid (17-beta) dehydrogenase 1 (HSD17B1), with C-terminal Myc/DDK tag, expressed in HEK293 cells, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC211135 representing NM\_000413  
Red=Cloning site Green=Tags(s)

MARTVWLITGCSSGIGLHLAVRLASDPSQSFKVYATLRDLKTQGRWLWEAARALACPPGSLETQLQDVRDS  
KSVAAARERVTEGRVDVLCNAGLGLLGPLEALGEDAVASVLDVNVVGTVRMLQAFLPDMKRRGSGRVLV  
TGSVGGMLMGLPFNDVYCASKFALEGLCESLAVLLLPGVHLSLIECGPVHTAFMEKVLGSPPEVLDRTDI  
HTFHRFYQYLAHSKQVFREAAQNPEEVAEVFLTALRAPKPTLRYFTTERFLPLLRMLDDPSGSNYVTAM  
HREVFQDVPKAEAGAEAGGGAGPGAEDEAGRGAVGDPPELGDPPAAPQ

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-MYC/DDK

**Predicted MW:** 35 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_000404](#)

**Locus ID:** 3292

**UniProt ID:** [P14061](#)



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RefSeq Size: 2248

Cytogenetics: 17q21.2

RefSeq ORF: 984

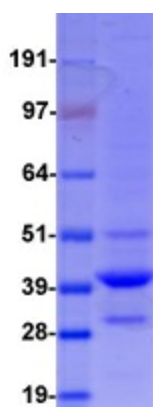
Synonyms: 17-beta-HSD; 20-alpha-HSD; E2DH; EDH17B2; EDHB17; HSD17; SDR28C1

**Summary:** 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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Androgen and estrogen metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified HSD17B1 protein (Cat# TP311135). The protein was produced from HEK293T cells transfected with HSD17B1 cDNA clone (Cat# [RC211135]) using MegaTran 2.0 (Cat# [TT210002]).