

Recombinant Full Length Human HSD17B1 Protein, C-Flag-tagged

Cat. No. HSD17B1-603HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human HSD17B1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

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

25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass

35 kDa

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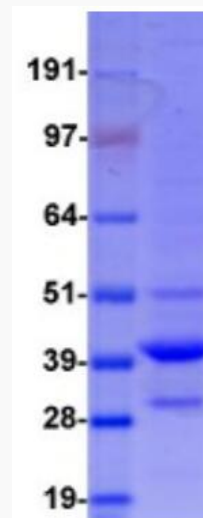
AA Sequence	MARTVVLITGCSSGIGLHLAVRLASDPSQSFKVYATLRDLKTQGRLWEAARALACPP GSLETLQLDVRDS KSVAAARERVTEGRVDLVCNAGLGLLGPLEALGEDAVASVLD VNVVGTVRMLQAFLPDMKRRGSGRVLV TGSVGGMLGLPFNDVYCASKFALEGLCE SLAVLLLPFGVHLSLIECGPVHTAFMEKVLGSPEEVLDRDI HTFHRFYQYLAHSKQ VFREAAQNPEEVAEVFLTALRAPKPTLRYFTTERFLPLLRMLDDPSGSNYVTAM HREVFVDVPAKAEAGAEAGGGAGPGAEDEAGRGAVGDPELGDPPAAPQSGPTRT RRLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Androgen and estrogen metabolism, Metabolic pathways
Full Length	Full L.
GENE INFORMATION	
Gene Name	HSD17B1 hydroxysteroid 17-beta dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	HSD17B1

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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



Coomassie blue staining of purified HSD17B1 protein.

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