

Recombinant Human HSD3B2

Cat. No. HSD3B2-29343TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HSD3B2 (aa 1-372) with N-terminal proprietary tag, 66.99 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	372 amino acids
Description	The protein encoded by this gene is a bifunctional enzyme that catalyzes the oxidative conversion of delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. It plays a crucial role in the biosynthesis of all classes of hormonal steroids. This gene is predominantly expressed in the adrenals and the gonads. Mutations in this gene are associated with 3-beta-hydroxysteroid dehydrogenase, type II, deficiency. Alternatively spliced transcript variants have been found for this gene.
Molecular Weight	66.990kDa inclusive of tags
Tissue specificity	Expressed in adrenal gland, testis and ovary.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MGWSCLVTGAGGLLGQRIVRLLVEEKELKEIRALDKAFRP ELREEFSKLQNRTKLTV LEGDILDEPFLKRACQDVSVVIH TACIIDVFGVTHRESIMNVNVKGTQLLLEACVQAS VPVFI YTSSIEVAGPNSYKEIIQNGHEEEPLENTWPTPYPSKKL AEKAVLAANGWN LKNBDTLTYTCALRPTYIYGEGGPFLSAS INEALNNNGILSSVGKFSTVNPVYVGNVA WAHILALRALR DPKKAPSVRGQFYISDDTPHQSYDNLNYILSKEFGLRLD SRWSL PLTLMYWIGFLLEVVSFLLSPIYSYQPPFNRHTVT LSNSVFTFSYKKAQRDLAYKPLY SWEEAKQKTVEWVGSLV DRHKETLKSKTQ
Sequence Similarities	Belongs to the 3-beta-HSD family.

GENE INFORMATION

Gene Name	HSD3B2 hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 [Homo sapiens]
Official Symbol	HSD3B2
Synonyms	HSD3B2; hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2; SDR11E2; short chain dehydrogenase/reductase family 11E; member 2;
Gene ID	3284
mRNA Refseq	NM_000198

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Protein Refseq	NP_000189
MIM	613890
Uniprot ID	P26439
Chromosome Location	1p12
Pathway	Androgen biosynthesis, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone => androstenedione => estrone, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone =>
Function	3-beta-hydroxy-delta5-steroid dehydrogenase activity; 3-beta-hydroxy-delta5-steroid dehydrogenase activity; isomerase activity; nucleotide binding; oxidoreductase activity;

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