

## Recombinant Human HSD3B2

**Cat. No.** HSD3B2-29345TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment of Human HSD3B2 (aa 33-122) with N-terminal proprietary tag, 35.53 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>      | 90 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>        | 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. |
| <b>Molecular Weight</b>   | 35.530kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Tissue specificity</b> | Expressed in adrenal gland, testis and ovary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>             | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                                 |                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                          |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.      |
| <b>Sequences of amino acids</b> | ALDKAFRPELREEFSKLQNRTKLTVLEGDILDEPFLKRACQDVSVVIHTACIIDVFGVT<br>HRESIMNVNVKGTQLLLEACVQASVPVFIYT |
| <b>Sequence Similarities</b>    | Belongs to the 3-beta-HSD family.                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HSD3B2 hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 [ Homo sapiens ]                                                                                                                       |
| <b>Official Symbol</b> | HSD3B2                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 3284                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_000198                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_000189                                                                                                                                                                                                                  |
| <b>MIM</b>             | 613890                                                                                                                                                                                                                     |
| <b>Uniprot ID</b>      | P26439                                                                                                                                                                                                                     |

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 1p12                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Androgen biosynthesis, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone => androstenedione => estrone, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone => |
| <b>Function</b>            | 3-beta-hydroxy-delta5-steroid dehydrogenase activity; 3-beta-hydroxy-delta5-steroid dehydrogenase activity; isomerase activity; nucleotide binding; oxidoreductase activity;                                             |

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