

## Recombinant Full Length Human HSD3B2 Protein, C-Flag-tagged

**Cat. No.** HSD3B2-1441HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human HSD3B2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <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>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 41.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MGWSCLVTGAGGLLGQRIVRLLVEEKELKEIRALDKAFRPELREEFSKLQNRTKLTV<br>LEGDILDEPFLKR ACQDVSVVIHTACIIDVFGVTHRESIMNVNVKGTQLLLEACVQAS<br>VPVFIYTSSIEVAGPNSYKEIIQNG HEEEPLENTWPTPYPSKKLAEKAVLAANGWN<br>LKNGDTLYTCALRPTYIYGEGGPFLSASINEALNNNGI LSSVGKFSTVNPVYVGNVA<br>WAHILALRALRDPKAPSVRGQFYIISDDTPHQSYDNLNYILSKEFGLRLD SRWSLP                                                                                                                                                                                                            |

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|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                         | LTLMYWIGFLLLEVVSFLLSPIYSYQPPFNRHTVTLSNSVFTFSYKKAQRDLAYKPLYS<br>WEEAKQ<br>KTVEWVGSLVDRHKETLKSKTQTRTRPLEQKLISEEDLAANDILDYKDDDDKV                |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome, Transmembrane                                                                                                               |
| <b>Protein Pathways</b> | Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways                                                          |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

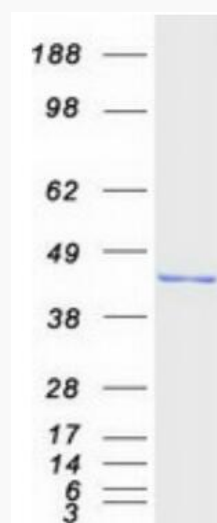
|                        |                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HSD3B2 hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | HSD3B2                                                                                                       |
| <b>Synonyms</b>        | HSDB; HSD3B; SDR11E2                                                                                         |

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|                |             |
|----------------|-------------|
| Gene ID        | 3284        |
| mRNA Refseq    | NM_000198.4 |
| Protein Refseq | NP_000189.1 |
| MIM            | 613890      |
| UniProt ID     | P26439      |



Coomassie blue staining of purified HSD3B2 protein.