

# Recombinant Mouse Hsd3b1 Protein, MYC/DDK-tagged

**Cat. No.** Hsd3b1-1182M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of full-length mouse hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1 (Hsd3b1), with C-terminal MYC/DDK tag, was expressed in HEK293T cells.                                                                            |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. |
| <b>Molecular Mass</b>   | 42 kDa                                                                                                                                                                                                                                                                           |
| <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 after receiving vials.                                                                                                                                                                                                                                   |
| <b>Concentration</b>    | >50 g/mL as determined by microplate BCA method                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                            |

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## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Hsd3b1 hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1 [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b> | <a href="#">Hsd3b1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | Hsd3b1; hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1; D3ErtD383e; 3-beta-HSD I; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1; 3-beta-hydroxy-5-ene steroid dehydrogenase; 3-beta-hydroxy-Delta(5)-steroid dehydrogenase; 3-beta-hydroxysteroid 3-dehydrogenase; delta-5-3-ketosteroid isomerase; dihydrotestosterone oxidoreductase; steroid Delta-isomerase; EC 1.1.1.145; EC 1.1.1.210; EC 1.1.1.270; EC 5.3.3.1 |
| <b>Gene ID</b>         | <a href="#">15492</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | <a href="#">NM_008293</a>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | <a href="#">NP_032319</a>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>      | <a href="#">P24815</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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