

## Recombinant Mouse Srd5a1 Protein, His-tagged

**Cat. No.** Srd5a1-2099M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant Mouse Srd5a1 Protein (Met1-Leu255) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | Met1-Leu255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Enables 3-oxo-5-alpha-steroid 4-dehydrogenase activity. Acts upstream of or within androgen biosynthetic process. Predicted to be located in several cellular components, including cell body fiber; neuronal cell body; and perinuclear region of cytoplasm. Is expressed in alimentary system; genitourinary system; hypothalamus; and liver. Human ortholog(s) of this gene implicated in prostate cancer and prostatic hypertrophy. Orthologous to human SRD5A1 (steroid 5 alpha-reductase 1). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 59.3 kDa<br>Accurate Molecular Mass: 57 kDa                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b>   | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b>   | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | Srd5a1 steroid 5 alpha-reductase 1 [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b>  | Srd5a1                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>         | SRD5A1; steroid 5 alpha-reductase 1; Srd5a-1;                                                                                                                                                                                                                                                                                                |
| <b>Gene ID</b>          | 78925                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_175283                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_780492                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | Q68FF9                                                                                                                                                                                                                                                                                                                                       |

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