

## Recombinant Human SRD5A2 protein

**Cat. No.** SRD5A2-81H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Human SRD5A2 was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | This gene encodes a microsomal protein expressed at high levels in androgen-sensitive tissues such as the prostate. The encoded protein is active at acidic pH and is sensitive to the 4-azasteroid inhibitor finasteride. Deficiencies in this gene can result in male pseudohermaphroditism, specifically pseudovaginal perineoscrotal hypospadias (PPSH). |
| <b>Form</b>             | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 28 Kd                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MQVQCQQSPVLGASATLVALGALALYVAKPSGYGKHTESLKPAATRLPARAAWFLQ<br>ELPSFAVPAGILARQPLSL FGPPGTVLLGLFCLHYFHRTFVYSLLNRGRPYPAIILRG<br>TAFCTGNGVLQGYLYCAEYPDGWYTDIRFSLGV FLFILGMGINIHSDYILRQLRKP<br>GEISYRIPQGGLFTYVSGANFLGEIIEWIGYALATWSLPALAFAFFSLCFLG LRAFHH<br>HRFYLKMFEDYPKSRKALIPFIF                                                                               |
| <b>Applications</b>     | Antibody Production; Functional Study: Recommended usage only, not validated yet.<br>Compound Screening: Recommended usage only, not validated yet.                                                                                                                                                                                                          |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>               | Heating may cause protein aggregation. Please do not heat this product before electrophoresis. Best use within three months from the date of receipt of this protein.                                                                                                                              |
| <b>Storage</b>             | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                           |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>           | SRD5A2 steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2) [ Homo sapiens ]                                                                                                                                                                       |
| <b>Official Symbol</b>     | SRD5A2                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>            | SRD5A2; steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2); 3-oxo-5-alpha-steroid 4-dehydrogenase 2; S5AR 2; SR type 2; 5 alpha-SR2; type II 5-alpha reductase; steroid 5-alpha-reductase 2; 3-oxo-5 alpha-steroid 4-dehydrogenase 2; MGC138457; |
| <b>Gene ID</b>             | 6716                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_000348                                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | NP_000339                                                                                                                                                                                                                                                                                          |
| <b>MIM</b>                 |                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P31213                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 2p23.1                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Androgen biosynthesis, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem;                                                                                                                                   |

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Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem;  
Prostate cancer, organism-specific biosystem; Prostate cancer, conserved biosystem;  
Steroid hormone biosynthesis, organism-specific biosystem;

**Function**

3-oxo-5-alpha-steroid 4-dehydrogenase activity; sterol 5-alpha reductase activity;

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