

Recombinant Human SRD5A1, GST-tagged

Cat. No. SRD5A1-85H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SRD5A1, fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	Steroid 5-alpha-reductase (EC 1.3.99.5) catalyzes the conversion of testosterone into the more potent androgen, dihydrotestosterone (DHT). Also see SRD5A2 (MIM 607306).
Molecular Mass	54.23 kDa
AA Sequence	MATATGVAEERLLAALAYLQCAVGCAVFARNRQTNSVYGRHALPSHRLRVPARAA WVQELPSLALPLYQYASES APRLRSAPNCILLAMFLVHYGHRCLIYPFLMRGGKP MPLLACTMAIMFCTCNGYLQSRYLSCAVYADDWVTDPR FLIGFGLWLTGMLINIHS DHILRNLRKPGDTGYKIPRGGLFEYVTAANYFGEIMEWCGYALASWSVQGAAFAFF T FCFLSGRAKEHHEWYLRKFEEYPKFRKIIIPFLF
Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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GENE INFORMATION

Gene Name	SRD5A1 steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1) [Homo sapiens (human)]
Official Symbol	SRD5A1
Synonyms	SRD5A1; steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1); 3-oxo-5-alpha-steroid 4-dehydrogenase 1; S5AR; SR type 1; 3 oxo 5 alpha steroid 4 dehydrogenase 1; 3 Oxo 5 alpha steroid delta 4 dehydrogenase alpha 1; 3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1,5-alpha reductase; 3-oxo-5-alpha-steroid 4-dehydrogenase 1; 5 alpha reductase; S5A1_HUMAN; S5AR 1; SRD5A 1; Srd5a1; Steroid 5 alpha reductase 1; Steroid 5 alpha reductase alpha polypeptide 1 (3 oxo 5 alpha steroid delta 4 dehydrogenase alpha 1); Steroid 5 alpha reductase alpha polypeptide 1; Steroid 5 alpha reductase type I; Steroid 5-alpha-reductase 1; SR type 1; 5-alpha reductase; steroid 5-alpha-reductase 1; steroid 5-alpha-reductase type I; 3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1; S5AR 1
Gene ID	6715
mRNA Refseq	NM_001047
Protein Refseq	NP_001038
MIM	184753
UniProt ID	P18405
Chromosome Location	5p15

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Pathway	Metabolism of lipids and lipoproteins; Metabolism of steroid hormones and vitamin D; Steroid hormone biosynthesis
Function	3-oxo-5-alpha-steroid 4-dehydrogenase activity; cholestenone 5-alpha-reductase activity; electron carrier activity

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