

## Product Information

### **MemDX™ Membrane Protein Human HSD3B1 (Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1) Full Length**

Cat. No.: **MPC4263K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human HSD3B1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

HSD3B1

##### Protein Length

Full length

##### Protein Class

Oxidoreductase

##### TMD

1

##### Sequence

MTGWSCSLVTGAGGFLGQRIIRLLVKEKELKEIRVLDKAFGPELREEFSKL  
QNKTKLTVLEGDILDEPFLKRACQDVSVIIHTACIIDVFGVTHRESIMNV  
NVKGTQLLLEACVQASVPVFIYTSSIEVAGPNSYKEIIQNGHEEEPLENT  
WPAPYPHSHKLAEKAVLAANGWNLKNGGTLYTCALRPMYIYGEGRFLSA  
SINEALNNNGILSSVGKFSTVNPVYVGNVAWAHILALRALQDPKKAPSIR  
GQFYIISDDTPHQSYDNLNYTSLKEFGLRLDSRWSFPLSLMYWIGFLEI  
VSFLLRPIYTYRPPFNRHIVTLSNSVFTFSYKKAQRDLAYKPLYSWEEAK  
QKTVEWVGSLVDRHKETLKSQTQ

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

##### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

HSD3B1

**Full Name**

Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1

**Introduction**

The protein encoded by this gene is an enzyme that catalyzes the oxidative conversion of delta-5-3-beta-hydroxysteroid precursors into delta-4-ketosteroids, which leads to the production of all classes of steroid hormones. The encoded protein also catalyzes the interconversion of 3-beta-hydroxy- and 3-keto-5-alpha-androstane steroids.

**Alternative Names**

HSD3B1; HSD3B; HSDB3; HSDB3A; SDR11E1; 3BETAHSD; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 1; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type I; 3-beta-HSD I; 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; progesterone reductase; short chain dehydrogenase/reductase family 11E, member 1; steroid Delta-isomerase; trophoblast antigen FDO161G; Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1

**Gene ID**

[3283](#)

**UniProt ID**

[P14060](#)