

## Product Information

### **MemDX™ Membrane Protein Human HSD3B2 (Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2) Full Length**

Cat. No.: **MPC4866K**

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

This product is a made-to-order Human HSD3B2 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

HSD3B2

##### Protein Length

Full length

##### Protein Class

Oxidoreductase

##### TMD

1

##### Sequence

MGWSCLVTGAGGLLGQRIVRLVVEEKELKEIRALDKAFRPELREEFSKLQ  
NRTKLTVLEGDILDEPFLKRACQDVSVVIHTACIIDVFGVTHRESIMNVN  
VKGQTQLLLEACVQASVPVFIYTSSIEVAGPNSYKEIIQNGHEEEPLENTW  
PTYPYPYSKKLAEKAVLAANGWNLKNGDTLYTCALRPTYIYGEGGPFLSAS  
INEALNNNGILSSVGKFSTVNPVYVGNVAWAHILALRALRDPKKAPSVRG  
QFYYISDDTPHQSYDNLNYILSKEFGLRLDSRWSLPLTLMYWIGFLLEV  
SFLLSPIYSYQPPFNRHVTLSNSVFTFSYKKAQRDLAYKPLYSWEEAKQ  
KTVEWVGS�VDRHKETLKSQTQ

#### 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**

HSD3B2

**Full Name**

Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2

**Introduction**

The protein encoded by this gene is a bifunctional enzyme that catalyzes the oxidative conversion of delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. It plays a crucial role in the biosynthesis of all classes of hormonal steroids. This gene is predominantly expressed in the adrenals and the gonads. Mutations in this gene are associated with 3-beta-hydroxysteroid dehydrogenase, type II, deficiency. Alternatively spliced transcript variants have been found for this gene.

**Alternative Names**

HSD3B2; HSDB; HSD3B; SDR11E2; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2; 3 beta-HSD type II; 3 beta-hydroxysteroid dehydrogenase type II, delta 5-delta 4-isomerase type II, 3 beta-HSD type II; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type II; 3-beta-HSD II; 3-beta-HSD adrenal and gonadal type; 3-beta-hydroxy-5-ene steroid dehydrogenase; 3-beta-hydroxy-Delta(5)-steroid dehydrogenase; delta 5-delta 4-isomerase type II; progesterone reductase; short chain dehydrogenase/reductase family 11E, member 2; Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2

**Gene ID**

[3284](#)

**UniProt ID**

[P26439](#)