

Product Information

MemDX™ Membrane Protein Human HSD3B2 (Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2) Expressed *in vitro* E.coli expression system, Full Length of Mature Protein

Cat. No.: **MPX1733K**

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

This product is a Human HSD3B2 membrane protein expressed *in vitro* E.coli expression system. 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 of Mature Protein

Protein Class

Oxidoreductase

TMD

1

Sequence

MGWSCLVTGAGGLLGQRIVRLVVEEKELKEIRALDKAFRPELREEFSKLQNRKLTVLGDILDEPFLKRACQDVSVVIHTACIIDVFG

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°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](#)