

## Product datasheet

# Recombinant Human HSD3B2 protein ab114766

[1 Image](#)

### Description

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<b>Product name</b>	Recombinant Human HSD3B2 protein
<b>Expression system</b>	Wheat germ
<b>Accession</b>	<b><u>P14060</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MGWSCLVTGAGLLGQRIVRLVVEEKELKEIRALDKAFRP ELREEFSKLQ NRTKLTVLEGDILDEPFLKRACQDVSVVIHTACIIDVFGVTH RESIMNVN VKGTQLLLEACVQASVPVFIYTSSIEVAGPNSYKEIIQNGHE EEPLENTW PTPYPYSKKLAEKAVLAANGWNLKNGDTLYTCALRPTYYG EGGPFLSAS INEALNNGILSSVGKFSTVNPVYVGNVAWAHILALRALRD PKKAPSVRG QFYISDDTPHQSYDNLNYLSKEFGLRLDSRWSLPLTLMY WIGFLLEV SFLLSPIYSQPPFNRHTVTLNSVFTFSYKKAQRDLAYKP LYSWEEAKQKTVEWVWVGLVDRHKETLKSQTQ
<b>Predicted molecular weight</b>	67 kDa including tags
<b>Amino acids</b>	1 to 372

### Specifications

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Our **Abpromise guarantee** covers the use of **ab114766** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA SDS-PAGE Western blot
<b>Form</b>	Liquid

## Preparation and Storage

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### Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

## General Info

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### Function

3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids.

### Tissue specificity

Expressed in adrenal gland, testis and ovary.

### Pathway

Lipid metabolism; steroid biosynthesis.

### Involvement in disease

Defects in HSD3B2 are the cause of adrenal hyperplasia type 2 (AH2) [MIM:201810]. AH2 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: 'salt wasting' (SW, the most severe type), 'simple virilizing' (SV, less severely affected patients), with normal aldosterone biosynthesis, 'non-classic form' or late onset (NC or LOAH), and 'cryptic' (asymptomatic). In AH2, virilization is much less marked or does not occur. AH2 is frequently lethal in early life.

Note=Mild HSD3B2 deficiency in hyperandrogenic females is associated with characteristic traits of polycystic ovary syndrome, such as insulin resistance and luteinizing hormone hypersecretion.

### Sequence similarities

Belongs to the 3-beta-HSD family.

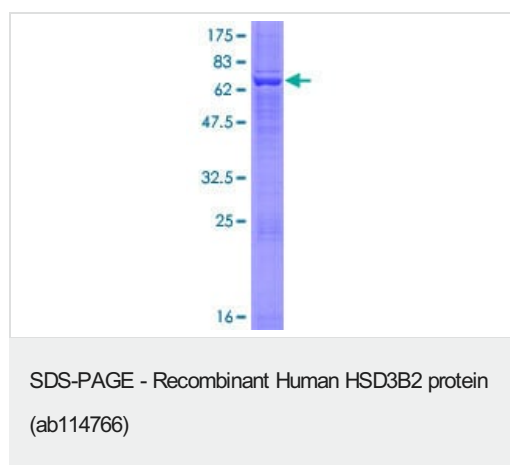
### Cellular localization

Endoplasmic reticulum membrane. Mitochondrion membrane.

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## Images

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12.5% SDS-PAGE Stained with Coomassie Blue showing ab114766 at approximately 66.99kDa.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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