

Product datasheet

Recombinant Human HSD11B1 protein ab114301

1 Image

Description

Product name	Recombinant Human HSD11B1 protein
Expression system	Wheat germ
Accession	<u>P28845</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVITG ASKGIGREM AYHLAKMGAHVVVTARSKETLQKVVSHCLELGAASAHYA GTMEDMTFAE QFVAQAGKLMGGLDMLLNHITNTSLNLFHDDIHHVRKSME VNFLSYVVL TVAALPMLKQSNQSIIVVSSLAGKVAYPMVAAYSASKFAL DGGFSSIRKE YSVSRVNVISITLCVLGLIDTETAMKAVSGIVHMQAAPKEEC ALEIIKGGA LRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK
Predicted molecular weight	58 kDa including tags
Amino acids	1 to 292

Specifications

Our **Abpromise guarantee** covers the use of **ab114301** in the following tested applications.

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

Applications	Western blot ELISA SDS-PAGE
Form	Liquid

Preparation and Storage

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

Function

Catalyzes reversibly the conversion of cortisol to the inactive metabolite cortisone. Catalyzes reversibly the conversion of 7-ketocholesterol to 7-beta-hydroxycholesterol. In intact cells, the reaction runs only in one direction, from 7-ketocholesterol to 7-beta-hydroxycholesterol.

Tissue specificity

Widely expressed. Highest expression in liver.

Involvement in disease

Defects in HSD11B1 are a cause of cortisone reductase deficiency (CRD) [MIM:604931]. In CRD, activation of cortisone to cortisol does not occur, resulting in adrenocorticotropic-mediated androgen excess and a phenotype resembling polycystic ovary syndrome (PCOS).

Sequence similarities

Belongs to the short-chain dehydrogenases/reductases (SDR) family.

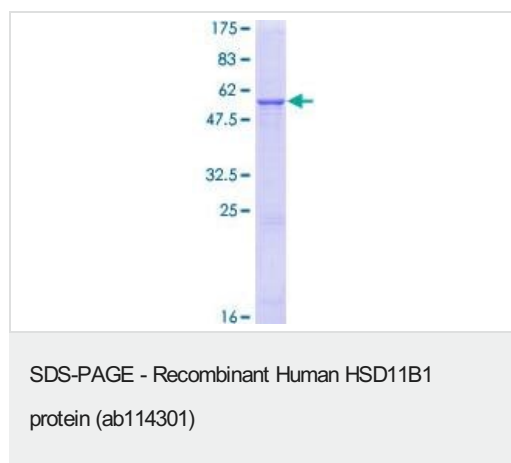
Post-translational modifications

Glycosylated.

Cellular localization

Endoplasmic reticulum membrane.

Images



12.5% SDS-PAGE image showing ab114301 Stained with Coomassie Blue.

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

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