

## Product datasheet

# Recombinant human AKR1C1 protein ab117472

### Overview

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<b>Product name</b>	Recombinant human AKR1C1 protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

### Amino Acid Sequence

<b>Accession</b>	<a href="#">Q04828</a>
<b>Species</b>	Human
<b>Sequence</b>	<p>MGSSHHHHHHSSGLVPRGSHMDSKYQCVKLNDGHFMPVLGFGTYAPAEVP            KSKALEATKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVKREDIF            YTSKLWCNSHRPELVRPALERSLKNLQLDYVDLYLIHFPVSVKPGEEVIP            KDENGKILFDTVDLCATWEAVEKCKDAGLAKSIGVSNFNRRQLEMILNKP            GLKYKPVCNQVECHPYFNQRKLLDFCKSKDMLVAYSALGSHREEPWVDP            NSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYPNEQRIRQN            VQVFEFQLTSEEMKAIDGLNRNVRYLTLDIFAGPPNYPFSDEY</p>
<b>Molecular weight</b>	39 kDa including tags
<b>Amino acids</b>	1 to 323
<b>Tags</b>	His tag N-Terminus

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab117472** in the following tested applications.

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

<b>Biological activity</b>	Specific activity: approximately 0.15 - 0.2 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme catalyzing the oxidation of 1 micromole NADPH per minute at 25°C. Specific activity was expressed as units/mg protein.
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<b>Applications</b>	Functional Studies SDS-PAGE
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<b>Purity</b>	> 90 % SDS-PAGE. ab117472 is purified by proprietary chromatographic techniques.
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<b>Form</b>	Liquid
<b>Additional notes</b>	ab117472 is stable at 4°C for 30 days, it should be stored desiccated below -20°C for periods greater than 30 days. Avoid freeze-thaw cycles.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Please see notes section. pH: 8.00 Constituents: 0.32% Tris HCl, 0.02% DTT, 20% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

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<b>Function</b>	Converts progesterone to its inactive form, 20-alpha-dihydroxyprogesterone (20-alpha-OHP). In the liver and intestine, may have a role in the transport of bile. May have a role in monitoring the intrahepatic bile acid concentration. Has a low bile-binding ability. May play a role in myelin formation.
<b>Tissue specificity</b>	Expressed in all tissues tested including liver, prostate, testis, adrenal gland, brain, uterus, mammary gland and keratinocytes. Highest levels found in liver, mammary gland and brain.
<b>Sequence similarities</b>	Belongs to the aldo/keto reductase family.
<b>Cellular localization</b>	Cytoplasm.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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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 <http://www.abcam.com/abpromise> or contact our technical team.

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