

Product datasheet

Recombinant human AKR1C1 protein ab117472

Overview

Product name	Recombinant human AKR1C1 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	Q04828
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMDSKYQCVKLNDGHFMPVLGFGTYAPAEVP KSKALEATKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVKREDIF YTSKLWCNSHRPELVRPALERSLKNLQLDYVDLYLIHFVSVKPGEEVIP KDENGKILFDTVLCATWEAVEKCKDAGLAKSIGVSNFNRRQLEMILNKP GLKYKPVCNQVECHPYFNQRKLLDFCKSKDMLVAYSALGSHREEPWVDP NSPVLLEDVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYPNEQRIRQN VQVFEFQLTSEEMKAIDGLNRNVRYLTLDIFAGPPNYPFSDEY
Molecular weight	39 kDa including tags
Amino acids	1 to 323
Tags	His tag N-Terminus

Specifications

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.

Biological activity	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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Applications	Functional Studies SDS-PAGE
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Purity	> 90 % SDS-PAGE. ab117472 is purified by proprietary chromatographic techniques.
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Form	Liquid
Additional notes	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

Stability and Storage	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

Function	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.
Tissue specificity	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.
Sequence similarities	Belongs to the aldo/keto reductase family.
Cellular localization	Cytoplasm.

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