abcam

Product datasheet

Recombinant human AKR1C4 protein ab109831

1 Image

Description

Product name	Recombinant human AKR1C4 protein
Biological activity	Specific activity is > 700 pmol/min/µg, and is defined as the amount of enzyme that catalyzes the reduction of 1.0 pmole 3-chlorobenzaldehyde in the presence of NADP per minute at pH 8.8 at 25°C.
Purity	> 90 % SDS-PAGE. ab109831 was purified using conventional chromatography.
Expression system	Escherichia coli
Accession	P17516
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMDPKYQRVELNDGHFMPV LGFGTYAPPEVP RNRAVEVTKLAIEAGFRHIDSAYLYNNEEQVGLAIRSKIADG SVKREDIF YTSKLWCTFFQPQMVQPALESSLKKLQLDYVDLYLLHFP MALKPGETPLP KDENGKVIFDTVDLSATWEVMEKCKDAGLAKSIGVSNFN CRQLEMILNKP GLKYKPVCNQVECHPYLNQSKLLDFCKSKDIVLVAHSALG TQRHKLWVDP NSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAK SYNEQRIREN IQVFEFQLTSEDMKVLDGLNRNYRYVVMDFLMDHPDYPF SDEY
Predicted molecular weight	39 kDa including tags
Amino acids	1 to 343
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab109831** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	Previously labelled as HSD3a.

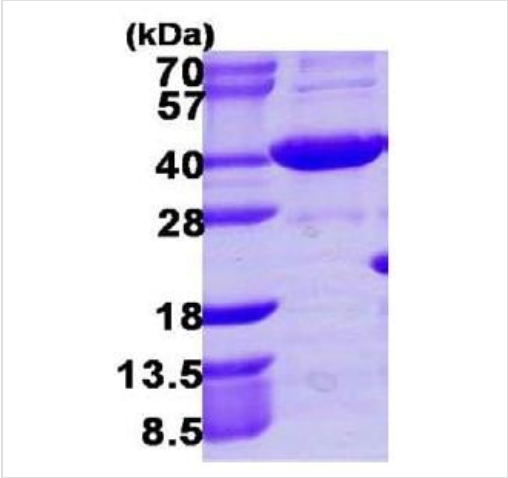
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Catalyzes the transformation of the potent androgen dihydrotestosterone (DHT) into the less active form, 5-alpha-androstan-3-alpha,17-beta-diol (3-alpha-diol). Also has some 20-alpha-hydroxysteroid dehydrogenase activity. The biotransformation of the pesticide chlordecone (kepone) to its corresponding alcohol leads to increased biliary excretion of the pesticide and concomitant reduction of its neurotoxicity since bile is the major excretory route.
Tissue specificity	Liver specific.
Sequence similarities	Belongs to the aldo/keto reductase family.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant human AKR1C4 protein (ab109831)

15% SDS-PAGE image, using ab109831 at 3ug

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

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- Replacement or refund for products not performing as stated on the datasheet
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- 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

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