Datasheet for ABIN5854099

AKR1B1 Protein (AA 1-316) (His tag)

Go to Product page

1 Image

Overview

Quantity:	100 µg
Target:	AKR1B1
Protein Characteristics:	AA 1-316
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This AKR1B1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMASHLEL NNGTKMPTLG LGTWKSPPGQ VTEAVKVAID LGYRHIDCAQ VYQNEKEVGV ALQEKLKEQV VKRQDLFIVS KLWCTFHDKS MVKGAFQKTL SDLQLDYLDL YLIHWPTGFK PGPDYFPLDA SGNVIPSDTD FVDTWTAMEQ LVDEGLVKTI GVSNFNPLQI ERILNKPGLK YKPAVNQIEC HPYLTQEKLI EYCHSKGIVV TAYSPLGSPD RPWAKPEDPS LLEDPRIKAI AAKYNKTTAQ VLIRFPIQRN LVVIPKSVTP VRIAENLKVF DFEVSSEDMA TLLSYNRNWR VCALMSCAKH KDYPFHAEV
Purity:	> 95 % by SDS - PAGE
Biological Activity Comment:	Specific activity is > 500 pmol/min/ug, and is defined as the amount of enzyme that catalyze the reduction of 1.0 pmole DL-glyceraldehyde in the presence of NADPH per minute at pH7.0 at 37C.

Copyright antibodies-online. All rights reserved.

Target Details

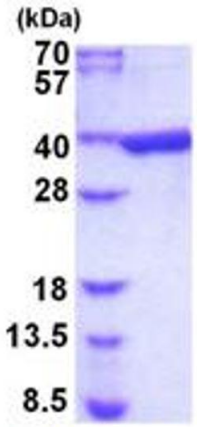
Target:	AKR1B1
Alternative Name:	Akr1b1 (AKR1B1 Products)
Background:	Akr1b1, also known as Aldose reductas, is an enzyme. It catalyzes the NADPH-dependent reduction of a wide variety of carbonyl-containing compounds to their corresponding alcohols with a broad range of catalytic efficiencies. Recombinant mouse Akr1b1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Molecular Weight:	38.1kDa (339aa) confirmed by MALDI-TOF
NCBI Accession:	NP_033788
UniProt:	P45376
Pathways:	Metabolism of Steroid Hormones and Vitamin D, C21-Steroid Hormone Metabolic Process, Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid. In Phosphate buffer saline (pH 7.4) containing 10 % glycerol.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

SDS-PAGE
Image 1.

 Copyright antibodies-online. All rights reserved.