

## Datasheet for ABIN7317529 **AKR1A1 Protein (His tag)**



Overview

Quantity:	100 µg
Target:	AKR1A1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKR1A1 protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human AKR1A1 Protein (His Tag)
Sequence:	Met 1-Tyr 325
Characteristics:	A DNA sequence encoding the human AKR1A1 (P14550) (Met 1-Tyr 325) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Target Details	
Target:	AKR1A1
Alternative Name:	AKR1A1 (AKR1A1 Products)
Background:	Background: Aldehyde reductase (AKR1A1) is a member of the aldo-keto reductase

superfamily, which consists of more than 40 known enzymes and proteins that includes variety

of monomeric NADPH-dependent oxidoreductases, such as aldehyde reductase. Aldehyde

reductase has wide substrate specificities for carbonyl compounds. These enzymes are

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## Target Details

č	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C
Storage:	4 °C -20 °C -80 °C
Buffer	Lyonhilized from sterile PRS nH 7.5
Reconstitution:	Please refer to the printed manual for detailed information.
Format:	Lyophilized
Handling	
Restrictions:	For Research Use only
Application Details	
Pathways:	Monocarboxylic Acid Catabolic Process
UniProt:	P14550
Molecular Weight:	39 kDa
	Synonym: ALDR1,ALR,ARM,DD3,HEL-S-6
	binding is more similar to FAD- than to NAD(P)-binding oxidoreductases. AKR1A1 is involved in
	C-terminal end of the beta sheet, the substrate being bound in an extended conformation. This
	a novel NADP-binding motif. The binding site is located in a large, deep, elliptical pocket in the
	to sorbitol. Aldehyde reductase possess a structure with a beta-alpha-beta fold which contains
	implicated in the development of diabetic complications by catalyzing the reduction of glucose