

Recombinant Human AKR1D1 293 Cell Lysate

Cat. No. AKR1D1-8928HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase) (AKR1D1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

AKR1D1 aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase) [Homo sapiens]

Official Symbol

AKR1D1

Synonyms

AKR1D1; aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase); SRD5B1; 3-oxo-5-beta-steroid 4-dehydrogenase; delta(4)-3-oxosteroid 5-beta-reductase; delta(4)-3-ketosteroid 5-beta-reductase; steroid-5-beta-reductase, beta polypeptide 1 (3-oxo-5 beta-steroid delta 4-dehydrogenase beta 1); CBAS2; 3o5bred;

Gene ID

6718

mRNA Refseq

NM_001190906

Protein Refseq

NP_001177835

MIM

604741

UniProt ID

P51857

Chromosome Location

7q32-q33

Pathway

Bile acid and bile salt metabolism, organism-specific biosystem; Bile acid

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biosynthesis, cholesterol =>cholate, organism-specific biosystem; Bile acid biosynthesis, cholesterol => cholate, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

3-oxo-5-beta-steroid 4-dehydrogenase activity; delta4-3-oxosteroid 5beta-reductase activity; oxidoreductase activity; steroid binding;

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