

Human Recombinant AKR1C4

CATALOG #:	6338-100	100 µg
ALTERNATE NAMES:	Aldo-keto reductase family 1, member C 4, DHEA-ST, DHEAS, HST, hSTa, ST2, ST2A1, ST2A3.	
SOURCE:	E.Coli	
PURITY:	> 90% by SDS - PAGE	
MOL. WEIGHT:	39.2 kDa (343 aa, 1-323 aa + His Tag (NT))	
FORMULATION:	1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1 M NaCl and 1 mM DTT.	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

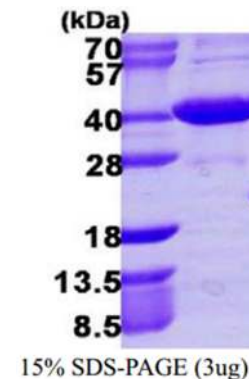
AKR1C4 is a member of the aldo/keto reductase superfamily that has over 40 known enzymes and proteins. AKR1C4 enables the conversion of aldehydes and ketones to their corresponding alcohols by using NADH and/or NADPH as cofactors. AKR1C4 takes part in the bioreduction of chlordecone, a toxic organochlorine pesticide, to chlordecone alcohol in liver.

AMINO ACID SEQUENCE:

MGSSHHHHHH SGLVPRGSH MDPKYQRVEL NDGHFMPVLG FGTYAPPEVP
RNRAVEVTKL AIEAGFRHID SAYLYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLWCTFF
QPQMVPQPALE SSLKKLQLDY VDLYLLHFPM ALKPGETPLP KDENGKVIDF TVDLSATWEV
MEKCKDAGLA KSIGVSNFNC RQLEMILNKP GLKYKPCVNQ VECHPYLNQS KLLDFCKSKD
IVLVAHSALG TQRHKLWVDP NSPVLLDPV LCALAKKHKR TPALIALRYQ LQRGVVVLAK
SYNEQRIREN IQVFEFQLTS EDMKVL DGLN RNYRYVVMDF LMDHPDY PFS DEY

BIOLOGICAL ACTIVITY:

Specific activity is approximately < 0.6 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.



Human Recombinant AKR1C4

RELATED PRODUCTS:

- Aldehyde Dehydrogenase Activity Colorimetric Assay kit (Cat. No. K731-100)
- PicoProbe™ Aldehyde Dehydrogenase Activity Assay kit (Cat. No. K741-100)
- Human recombinant ALDH2 (Cat. No. 6332-100)
- Human recombinant ALDH3A1 (Cat. No. 6333-50)
- Human recombinant AKR7A3 (Cat. No. 6334-50)
- Human recombinant AKR7A2 (Cat. No. 6335-50)
- Human recombinant AKR1C1 (Cat. No. 6336-50)
- Human recombinant AKR1C3 (Cat. No. 6337-50)
- Human recombinant AKR1B10 (Cat. No. 6339-50)

FOR RESEARCH USE ONLY! Not to be used in humans.