

Recombinant Full Length Human AKR1C3 Protein, GST-tagged

Cat. No. AKR1C3-1368HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AKR1C3 full-length ORF (AAH01479, 1 a.a. - 323 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	323 amino acids
Description	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reduction of prostaglandin (PG) D₂, PGH₂ and phenanthrenequinone (PQ), and the oxidation of 9α,11β-PGF₂ to PGD₂. It may play an important role in the pathogenesis of allergic diseases such as asthma, and may also have a role in controlling cell growth and/or differentiation. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Molecular Mass	61.16 kDa
AA Sequence	MDSKHQCVKL NDGHFMPVLG FGTYAPPEVP RSKALEVTKL AIEAGFRHID SAHLYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLTWSTFH RPELVRPALE

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NSLKKAQLDY VDLYLIHSPM SLKPGEELSP TDENGKVIFD IVDLCTTWEA
 MEKCKDAGLA KSIGVSNFNR RQLEMILNKP GLKYKPCVNQ VECHPYFNRS
 KLLDFCKSKD IVLVAYSALG SQRDKRWVDP NSPVLLEDPV LCALAKKHKR
 TPALIALRYQ LQRGVVVLAK SYNEQRIRQN VQVFEFQLTA EDMKAIDGLD
 RNLHYFNSSDS FASHPNYPYS DEY

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

AKR1C3 aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid
 dehydrogenase, type II) [Homo sapiens]

Official Symbol

AKR1C3

Synonyms

AKR1C3; aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid
 dehydrogenase, type II); HSD17B5, hydroxysteroid (17 beta) dehydrogenase 5; aldo-
 keto reductase family 1 member C3; DDX; dihydrodiol dehydrogenase X; HAKRB;
 KIAA0119; PGFS; prostaglandin F synthase; indanol dehydrogenase; 3-alpha-HSD
 type II, brain; dihydrodiol dehydrogenase 3; chlordecone reductase homolog HAKRb;
 testosterone 17-beta-dehydrogenase 5; type IIb 3-alpha hydroxysteroid
 dehydrogenase; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; DD3; HAKRe;
 HA1753; HSD17B5; hluPGFS

Gene ID

8644

mRNA Refseq	NM_001253909
Protein Refseq	NP_001240838
MIM	603966
UniProt ID	P42330

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