

Product datasheet for **TP300210M**

AKR1C3 (NM_003739) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II) (AKR1C3), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC200210 protein sequence
Red=Cloning site **Green**=Tags(s)

MDSKHQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAI EAGFRHIDSAHLYNNEEQVGLAIRSKIA
DGSVKREDIFYTSKLWSTFHRPELVRPALENSLKKAQLDYVDLYLIHSPMSLKPGEELSPTDENGKVID
IVDLCTTWEAMEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCVNQVECHPYFNRSKLLDFCKSKD
IVLVAYSALGSQRDKRWDPNSPVLLEDVLCALAKKHKRTPALIALRYQLQRGVVLA KSYNEQRIRQN
VQVF EFQLTAEDMKAIDGLDRNLHYFN SDFSASHPNYPYSDEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 36.7 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_003730](#)

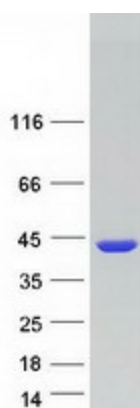
Locus ID: 8644



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UniProt ID:	P42330
RefSeq Size:	1251
Cytogenetics:	10p15.1
RefSeq ORF:	969
Synonyms:	DD3; DDX; HA1753; HAKRB; HAKRe; hluPGFS; HSD17B5; PGFS
Summary:	<p>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 9alpha,11beta-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]</p>
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Metabolism of xenobiotics by cytochrome P450

Product images:



Coomassie blue staining of purified AKR1C3 protein (Cat# [TP300210]). The protein was produced from HEK293T cells transfected with AKR1C3 cDNA clone (Cat# [RC200210]) using MegaTran 2.0 (Cat# [TT210002]).