

Product datasheet for PH300210

AKR1C3 (NM_003739) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AKR1C3 MS Standard C13 and N15-labeled recombinant protein (NP_003730)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200210
Predicted MW:	36.9 kDa
Protein Sequence:	>RC200210 protein sequence Red=Cloning site Green=Tags(s)

MDSKHQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIA
DGSVKREDIFYTSKWLSTFHRPELVRPALENSLKKQAQLDYVDLYLIHSPMSLKPGEELSPDENGKVI
IVDLCTTWEAMEKCKDAGLAKSIGVSNFNRRQLEMILNKPLKYPVCNQVECHPYFNRSKLLDFCKSKD
IVLVAYSALGSRDKRWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAQSYNEQRIRQN
VQVFEFQLTAEDMKAIDGLDRNLHYFNSSDFASHPNYPYSDEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003730</u>
RefSeq Size:	1251
RefSeq ORF:	969
Synonyms:	DD3; DDX; HA1753; HAKRB; HAKRe; hluPGFS; HSD17B5; PGFS
Locus ID:	8644



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UniProt ID: [P42330](#)

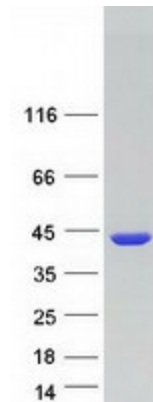
Cytogenetics: 10p15.1

Summary: 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 9 α ,11 β -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]

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]).