

Product datasheet for PH302813

AKR1A1 (NM_153326) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AKR1A1 MS Standard C13 and N15-labeled recombinant protein (NP_697021)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202813
Predicted MW:	36.6 kDa
Protein Sequence:	>RC202813 protein sequence Red=Cloning site Green=Tags(s)

MAASCVLLHTGQKMPLIGLGTWKSEPGQVKAADVYALSVGYRHIDCAAIYGNEPEIGEALKEDVGPVKAV
PREELFVTSKLVNTKHHPEDEVPEALRKTLADLQLEYLDLYLMHWPYAFERGDNPFPKNADGTICYDSTHY
KETWKALEALVAKGLVQALGLSNFNSRQIDDILSVASVRPAVLQVECHPYLAQNELIAHCQARGLEVTAY
SPLGSSDRAWRPDEPVLLEEVVLAALAEKYGRSPAQILLRWQVQRKVICIPKSIITPSRILQNIKVFDFD
FSPEEMKQLNALNKNWRYIVPMLTVDGKRVPRDAGHPLYPFNDPY

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_697021</u>
RefSeq Size:	1469
RefSeq ORF:	975
Synonyms:	ALDR1; ALR; ARM; DD3; HEL-S-6
Locus ID:	10327



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UniProt ID: [P14550](#), [V9HWI0](#)

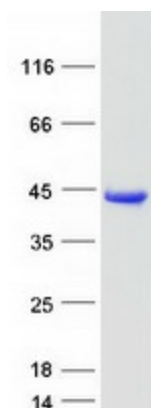
Cytogenetics: 1p34.1

Summary: This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member, also known as aldehyde reductase, is involved in the reduction of biogenic and xenobiotic aldehydes and is present in virtually every tissue. Multiple alternatively spliced transcript variants of this gene exist, all encoding the same protein. [provided by RefSeq, Jan 2011]

Protein Families: Druggable Genome

Protein Pathways: Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways

Product images:



Coomassie blue staining of purified AKR1A1 protein (Cat# [TP302813]). The protein was produced from HEK293T cells transfected with AKR1A1 cDNA clone (Cat# [RC202813]) using MegaTran 2.0 (Cat# [TT210002]).