

Product datasheet for PH300504

AKR1B1 (NM_001628) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AKR1B1 MS Standard C13 and N15-labeled recombinant protein (NP_001619)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200504
Predicted MW:	35.7 kDa
Protein Sequence:	>RC200504 representing NM_001628 Red=Cloning site Green=Tags(s) MASRLLLNNGAKMPILGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNEVEVGVAIQEKLREQVVKR EELFIVSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGNVVPSDTNILD TWAAMEELVDEGLVKAIGISNHNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKLIQYCQSKGIVVTAY SPLGSPDRPWAKPEDPSLLEDPRIKAI AAKHNKTTA QVLIRFPMQRNLVVIPKSVTERIAENFKVDFE LSSQDMTLLSYNRNWRVCALLSCTSHKDYPFHEEF TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_001619</u>
RefSeq Size:	1416
RefSeq ORF:	948
Synonyms:	ADR; ALDR1; ALR2; AR
Locus ID:	231



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UniProt ID: [P15121](#), [A0A024R7A8](#)

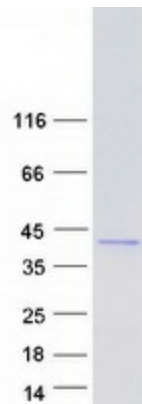
Cytogenetics: 7q33

Summary: This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol. Multiple pseudogenes have been identified for this gene. The nomenclature system used by the HUGO Gene Nomenclature Committee to define human aldo-keto reductase family members is known to differ from that used by the Mouse Genome Informatics database. [provided by RefSeq, Feb 2009]

Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism, Galactose metabolism, Glycerolipid metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Pyruvate metabolism

Product images:



Coomassie blue staining of purified AKR1B1 protein (Cat# [TP300504]). The protein was produced from HEK293T cells transfected with AKR1B1 cDNA clone (Cat# [RC200504]) using MegaTran 2.0 (Cat# [TT210002]).