

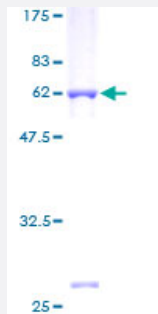
Full-Length

AKR1B10 (Human) Recombinant Protein (P01)

Catalog # H00057016-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AKR1B10 full-length ORF (AAH08837, 1 a.a. - 316 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MATFVELSTKAKMPVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAVYQNEHEVGGEAIQEKIQEK AVKREDLFVSKLWPTFFERPLVRKAFEKTLKDLKLSYLDVYLHWPPQGFKSGDDLFPKDDKGNAI GGKATFLDAWEAMEELVDEGLVKALGVSNFSHFQIEKLLNKPGLKYKPVTNQAECHPYLTQEKL QYCHSKGITVTAYSPLGSPDRPWAKPEDPSLLEDPKIKEIAAKHKKTAQVLIRFHIQRNVVIPKSV TPARIVENIQVDFKLSDEEMATILSFNRNWRACNVLQSSHLEDYPFDAEY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	60.50
Interspecies Antigen Sequence	Mouse (82); Rat (81)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

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

Note

Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — AKR1B10

Entrez GeneID[57016](#)**GeneBank Accession#**[BC008837](#)**Protein Accession#**[AAH08837](#)**Gene Name**

AKR1B10

Gene Alias

AKR1B11, AKR1B12, ALDRLn, ARL-1, ARL1, HIS, HSI, MGC14103

Gene Description

aldo-keto reductase family 1, member B10 (aldose reductase)

Omim ID[604707](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member can efficiently reduce aliphatic and aromatic aldehydes, and it is less active on hexoses. It is highly expressed in adrenal gland, small intestine, and colon, and may play an important role in liver carcinogenesis. [provided by RefSeq]

Other Designations

aldo-keto reductase family 1, member B10|aldo-keto reductase family 1, member B11 (aldose reductase-like)|aldose reductase-like 1|aldose reductase-like peptide|aldose reductase-related protein|small intestine reductase

Publication Reference

- [In vitro metabolism of a novel JNK inhibitor tanzisertib: interspecies differences in oxido-reduction and characterization of enzymes involved in metabolism.](#)

Atsriku C, Hoffmann M, Moghaddam M, Kumar G, Surapaneni S.

Xenobiotica 2015 Jun; 45(6):465.

Application: Enzyme, Human, Tanzisertib were incubated in human liver microsomes, cytosol and hepatocytes

Pathway

- [Bisphenol A degradation](#)
- [Butanoate metabolism](#)
- [Fructose and mannose metabolism](#)
- [Linoleic acid metabolism](#)
- [Metabolic pathways](#)
- [Tetrachloroethene degradation](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)