

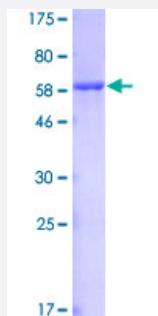
Full-Length

AKR1C4 (Human) Recombinant Protein (P01)

Catalog # H00001109-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human AKR1C4 full-length ORF (AAH20744, 1 a.a. - 323 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTCLAIEAGFRHIDSAYLYNNEEQVGLAIR
SKIADGSVKREDIFYTSKLWCTFFQPQMVPALLESSLKKLQLDYVDLYLLHFPALKPGETPLPK
DENGKVIDFTVDLSATWEVMEKCKDAGLAKSIGVSNFNRYRQLEMILNKPGLKYKPCNQVECHPY
LNQSKLLDFCKSKDMLVAHSALGTQRHKLWDPNSPVLLDPVLCALAKKHKRTPALIALRYQLQ
RGVVVLAKSYNEQRIRENIQVFEEQLTSEDMKVLGDGLNRNYRYVVMDFLMDHPDYPFSDEY

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

61.27

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 — AKR1C4

Entrez GeneID	1109
GeneBank Accession#	BC020744
Protein Accession#	AAH20744
Gene Name	AKR1C4
Gene Alias	3-alpha-HSD, C11, CDR, CHDR, DD4, HAKRA, MGC22581
Gene Description	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)
Omim ID	600451
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. 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 bioreduction of chlordecone, a toxic organochlorine pesticide, to chlordecone alcohol in liver. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. [provided by RefSeq]
Other Designations	3 alpha-hydroxysteroid dehydrogenase/dihydrodiol dehydrogenase 4[OTTHUMP00000018997]aldo-keto reductase family 1, member C4[chlordecone reductase[dihydrodiol dehydrogenase 4[dihydrodiol dehydrogenase isozyme DD4[type I 3-alpha-hydroxysteroid dehydrogenase

Pathway

- [Androgen and estrogen metabolism](#)
- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Primary bile acid biosynthesis](#)

Disease

- [Alzheimer Disease](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Obesity](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)