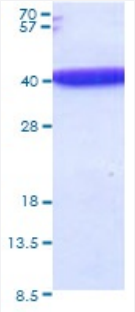
Bioactive Full-Length

AKR1C1 (Human) Recombinant Protein

Catalog # P6806 Size 20 ug

Applications



15% SDS-PAGE Stained with Coomassie Blue.

Specification

Product Description	Human AKR1C1 (NP_001344, 1 a.a. - 323 a.a.) full length recombinant protein expressed in *Escherichia coli*.
Host	Escherichia coli
Theoretical MW (kDa)	36.7
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU/ug
Activity	Specific activity is > 500 pmol/min/ug, and is defined as the amount of enzyme that catalyze the oxidation of 1.0 pmole 1-Acenaphthenol in the presence of NADP per minute at pH 8.8 at 25°C.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue 15% SDS-PAGE Stained with Coomassie Blue.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.

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Storage Buffer	In 20 mM Tris-HCl, 0.1 M NaCl, pH 8.5 (20% glycerol)
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — AKR1C1

Entrez GeneID	1645
Protein Accession#	Q04828
Gene Name	AKR1C1
Gene Alias	2-ALPHA-HSD, 20-ALPHA-HSD, C9, DD1, DDH, DDH1, H-37, HAKRC, MBAB, MGC8954
Gene Description	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)
Omim ID	600449
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 reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. 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	20 alpha-hydroxysteroid dehydrogenase|OTTHUMP00000018992|aldo-keto reductase C|aldo-keto reductase family 1, member C1|chlordecone reductase homolog|dihydrodiol dehydrogenase 1|dihydrodiol dehydrogenase isoform DD1|hepatic dihydrodiol dehydrogenase|trans-

Pathway

- Metabolism of xenobiotics by cytochrome P450

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Disease

- Alzheimer Disease
- Breast Neoplasms
- Genetic Predisposition to Disease
- Lung Neoplasms
- Lymphoma

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