

AKR1D1 recombinant protein

AKR1D1, 1-326aa, Human, E Coli

CATALOG # AAA48919	HOST E Coli	APPLICATIONS SDS-Page
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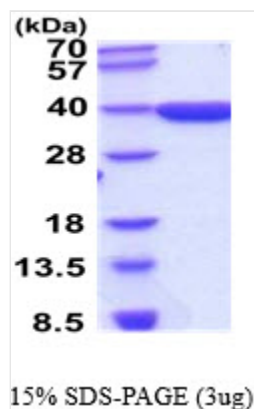
PRODUCT SYNONYMS

AKR1D1; 1-326aa; Human; E Coli; 3o5bred; CBAS2; SRD5B1; AKR1D1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.5) containing 1mM DTT, 0.1M NaCl, 10% glycerol
Concentration	1mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence	MDLSAASHRI PLSDGNSIPI IGLGTYSEPK STPKGACATS VKVAIDTGYR HIDGAYIYQN EHEVGGAIRE KIAEGKVRRE DIFYCGKLWA TNHVPMEVRP TLERTLRVLQ LDYVDLYIIE VPMFAKPGDE IYPRDENGKW LYHKSNLCAE WEAMEACKDA GLVKSLGVSF FNRRQLELIL NKPGKHKPV SNQVECHPYF TQPKLLKFCQ QHDIVITAYS PLGTSRNPIW VNVSSPPLLK DALLNSLGKR YNKTAQIVL RFNIQRGVVV IPKSFNLERI KENFQIFDFS LTEEEMKDIE ALNKNVRFVE LLMWRDHPEY PFHDEY
Sequence Length	326
Applicable Applications for AKR1D1 recombinant protein	SDS-PAGE
Antigen Species	Human
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for AKR1D1 recombinant protein	AKR1D1 also known as 3-oxo-5beta-steroid 4-dehydrogenase isoform 1, is a member of the AKR superfamily. The AKR family of proteins are soluble NADPH oxidoreductases. They play important roles in the metabolism of drugs, carcinogens and reactive aldehydes. AKR1D1 is responsible for the catalysis of the 5-betareduction of bile acid intermediates and steroid hormones which carry a delta (4)-3-one structure. AKR1D1 is highly expressed in liver, colon and testis. Deficiency of this enzyme may contribute to hepatic dysfunction. Recombinant AKR1D1 protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for AKR1D1 recombinant protein	Metabolism; Signal Transduction
References	Moore S A., et al. (1995) J Mol Biol. 249 (1):195-214; Gould S J., et al. (1988) Anal Biochem. 175 (1):5-13

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174695
NCBI GeneID	6718
NCBI Accession #	NP_005980
NCBI GenBank Nucleotide #	NP_005980.1
UniProt Accession #	P51857; A1L4P6; A8K060; B4DPN3; B4DPN8
Molecular Weight	37.3 kDa (326aa)
NCBI Official Full Name	3-oxo-5-beta-steroid 4-dehydrogenase isoform 1
NCBI Official Synonym Full Names	aldo-keto reductase family 1 member D1
NCBI Official Symbol	AKR1D1
NCBI Official Synonym Symbols	CBAS2; SRD5B1; 3o5bred
NCBI Protein Information	3-oxo-5-beta-steroid 4-dehydrogenase
UniProt Protein Name	3-oxo-5-beta-steroid 4-dehydrogenase
UniProt Gene Name	AKR1D1
UniProt Synonym Gene Names	SRD5B1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.