

AKR1D1 recombinant protein

Purified Recombinant AKR1D1 protein

CATALOG # AAA224724	HOST E. Coli Derived	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

AKR1D1; Purified Recombinant AKR1D1 protein; AKR1D1 protein; 3o5bred protein; CBAS2 protein; SD5B1 protein; AKR1D1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E. Coli Derived
Purity/Purification	> 95% pure by SDS-PAGE
Form/Format	0.2?m filtered liquid in 20mM Tris-HCl buffer (pH 8.5) containing 1mM DTT, 0.1M NaCl, 10% glycerol
Concentration	1 mg/ml (varies by lot)
Sequence	1-326aa:MD LSAASHRIPL SDGNSIPIIG LGTYSEPKST PKGACATSVK VAIDTGYRHI DGAIYQNEH EVGEAIREKI AEGKVRREDI FYCGKLWA TNHVP EMVRP TLERTLRVLQ LDYVDLYIIE VPMAFKPGDE IYPRDENGKW LYHKS NL CAT WEAMEACKDA GLVKS LGVSN FNRRQLELIL NKPGLKHK PVS NQVECHP YFTQPKLLKF CQQH DIVITA YSPLGTSRNP IWVNVSSPPL LKDALLNSLG KRYNK TAAQI VLR FN IQRGV VVIPKSFNLE RIKENFQIFD FSLTEEMKD IEALNKNVRF VELL MWRDHP EYPFHDEY
Sequence Length	326
Applicable Applications for AKR1D1 recombinant protein	SDS-PAGE
Expression	E Coli
Grade	Recombinant
Species	Human
Endotoxin	<1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Significance	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-beta reduction 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.
Biohazard	For research use only. Use standard laboratory precautions when handling.
Preparation and Storage	Store at 4°C for short term storage or store at -20°C for long term storage. Avoid repeat freeze/thaw cycles

ADDITIONAL INFORMATION

Product Categories/Family for AKR1D1 recombinant protein	Nutrition & Metabolism ; Proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	823673760
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NCBI GeneID	6718
Molecular Weight	37.3 kDa
NCBI Official Full Name	AKR1D1, partial
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.

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Online datasheet: <https://stage.aaabiotech.com/akr1d1-recombinant-protein-e-coli-derived-sds-page/224724>