

Product datasheet for **TP504723**

Akr1d1 (NM_145364) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse aldo-keto reductase family 1, member D1 (Akr1d1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR204723 protein sequence Red =Cloning site Green =Tags(s)
	 MNL5AAHHQISLSDGNNIPLIGLGTYS DPRPVP GKTYVAVKTAIDEGYRHIDGAYVYHNEHEVGEAIREK IAEGKVKREEIFYCGKLWNTEHVPSMVLPALETLKALKLDYIDLIIELPMAFKPGKEIYPRDENGRII YDKTNLCATWEALEACKDAGLVKSLGVSNFNRRQLELILNKPGLKYKPV TNQVECHPYFTQTLLKFCQQ HDIVIVAH SPLGTCRNPSWVNVSSPPLL NDEL TSLGKKYKNTQAQIVLRFNIQRGIVVIPKSFTPERIK ENFQIFDFSLTEEMKDIDALNKNVRYVELLMWSDHPEYPFHDEY TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	37.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_663339
Locus ID:	208665
UniProt ID:	Q8VCX1



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RefSeq Size: 2713

Cytogenetics: 6 B1

RefSeq ORF: 978

Synonyms: MGC25814

Summary: Catalyzes the stereospecific NADPH-dependent reduction of the C4-C5 double bond of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure to yield an A/B cis-ring junction. This cis-configuration is crucial for bile acid biosynthesis and plays important roles in steroid metabolism. Capable of reducing a broad range of delta-(4)-3-ketosteroids from C18 (such as, 17beta-hydroxyestr-4-en-3-one) to C27 (such as, 7alpha-hydroxycholest-4-en-3-one).[UniProtKB/Swiss-Prot Function]