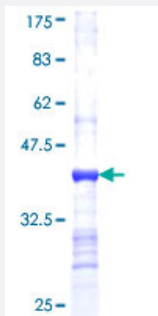


AKR1D1 (Human) Recombinant Protein (Q01)

Catalog # H00006718-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AKR1D1 partial ORF (NP_005980, 227 a.a. - 326 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	NPIWVNVSSPPLLKDALLNSLGKRYNKTAQVLRFNQIRGVVVIPKSFNLERIKENFQIFDFSLTEE EMKDIEALNKNVRFVELLMWRDHPEYPFHDEY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
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 — AKR1D1

Entrez GeneID	6718
GeneBank Accession#	NM_005989
Protein Accession#	NP_005980
Gene Name	AKR1D1
Gene Alias	3o5bred, SRD5B1
Gene Description	aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase)
Omim ID	604741
Gene Ontology	Hyperlink
Gene Summary	The enzyme encoded by this gene is responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure. Deficiency of this enzyme may contribute to hepatic dysfunction. [provided by RefSeq]
Other Designations	aldo-keto reductase family 1, member D1 steroid 5-beta-reductase steroid-5-beta-reductase, beta polypeptide 1 (3-oxo-5 beta-steroid delta 4-dehydrogenase beta 1)

Pathway

- [Androgen and estrogen metabolism](#)
- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)
- [Primary bile acid biosynthesis](#)

Disease

- [Tobacco Use Disorder](#)