

Bioactive

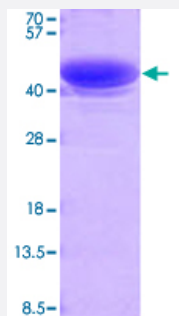
Full-Length

AKR7A2 (Human) Recombinant Protein

Catalog # P3498

Size 100 ug

Applications



Specification

Product Description

Human AKR7A2 (NP_003680, 1 a.a. - 359 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSELEMLSAASRVVSRAAVHCALRSPP
PEARALAMSRPPPPRVASVLGTMEMGRRMDAPASAAAVRAFLERGHTELDTAFMYSDGQSETIL
GGLGLGLGGGDCRVKIATKANPWDGKSLKPDSVRSQLETSLKRLQCPQVDLFYLHAPDHGTPVE
ETLHACQRLHQEGKFVELGLSNYASWEVAEICTLCKSNGWILPTVYQGMYNATTRQVETELFPCL
RHFGLRFYAYNPLAGGLLTGKYKYEDKDQKQPVGRFFGNSWAETYNRFWKEHHFEAIALVEKA
LQAAYGASAPSVTSAALRWMYHHSQLQGAHGDVILGMSSLEQLEQNLAATEEGPLEPAVVDAF
NQAWHLVAHECPNYFR

Host

Escherichia coli

Theoretical MW (kDa)

44

Form

Liquid

Preparation Method

Escherichia coli expression system

Purification

Conventional Chromatography

Concentration

0.5 mg/mL

Purity

> 90% by SDS-PAGE

Activity	Specific activity: approximately 0.25-0.3 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme catalyzing the oxidation of 1 umole NADPH per minute at 25°C. Specific activity was expressed as units/mg protein.
Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (1 mM DTT, 20% glycerol).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — AKR7A2

Entrez GeneID	8574
Protein Accession#	NP_003680
Gene Name	AKR7A2
Gene Alias	AFAR, AFAR1, AFB1-AR1, AKR7
Gene Description	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)
Omim ID	603418
Gene Ontology	Hyperlink
Gene Summary	Aldo-keto reductases, such as AKR7A2, are involved in the detoxification of aldehydes and ketones.[supplied by OMIM]
Other Designations	aflatoxin beta1 aldehyde reductase aldo-keto reductase family 7, member A2 aldoketoreductase 7