

Bioactive

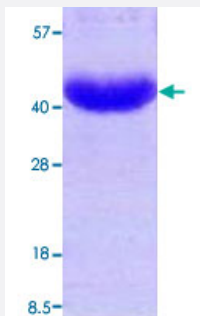
Full-Length

# AKR7A3 (Human) Recombinant Protein

Catalog # P3497

Size 50 ug

## Applications



## Specification

### Product Description

Human AKR7A3 (AAH25709, 1 a.a. - 331 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

### Sequence

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSELEMSRQLSRARPATVLGAMEMGRR  
MDAP TSAAVTRAFLERGHTEIDTAFVYSEGQSETILGGLRLGGSDCRVKIDTKAIP LFGNSLKP D  
SLRFQLETSLKRLQCPRVDLFY LHMPDHSTPVEETLRACHQLHQEGKFVELGLSNYAAWEVAEIC  
TLCKSNGWILPTVYQGMYNITRQVETELFPCLRHFGLRFYAFNPLAGLLTGKYKYEDKDGKQPV  
GRFFGNTWAEMYRNRYWKEHHFEGIALVEKALQAAYGASAPSM TSATLRWMYHHSQLQGAHGD  
AVILGMSSLEQLEQNLA AAE EGP LEP AVVD AFNQAWHLVAHECPNYFR

### Host

*Escherichia coli*

### Theoretical MW (kDa)

41.6

### Form

Liquid

### Preparation Method

*Escherichia coli* expression system

### Purification

Conventional Chromatography

### Concentration

0.5 mg/mL

### Purity

> 95% by SDS-PAGE

Activity	Specific activity: approximately < 0.1 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, 100 mM NaCl, pH 8.0 (10% 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 — AKR7A3

Entrez GeneID	<a href="#">22977</a>
Protein Accession#	<a href="#">AAH25709</a>
Gene Name	AKR7A3
Gene Alias	AFAR2
Gene Description	aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)
Omim ID	<a href="#">608477</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	Aldo-keto reductases, such as AKR7A3, are involved in the detoxification of aldehydes and ketones.[supplied by OMIM]
Other Designations	OTTHUMP00000002623 aflatoxin B1 aldehyde reductase 2 aldo-keto reductase family 7, member A3

## Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)