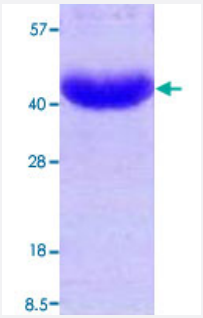
Bioactive Full-Length

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 MDAPTSAAVTRAFLERGHTEIDTAFVYSEGQSETILGGLGLRLGGSDCRVKIDTKAIPLFGNSLKPD SLRFQLETSLKRLQCPRVDLFYLHMPDHSTPVEETLRACHQLHQEGKFVELGLSNYAAWEVAEIC TLCKSNGWILPTVYQGMYNAITRQVETELFPCLRHFGLRFYAFNPLAGGLLTGKYKYEDKDGKQPV GRFFGNTWAEMYRNRYWKEHHFEGIALVEKALQAAYGASAPSMTSATLRWMYHHSQLQGAHGD AVILGMSSLEQLEQNLAAAEEGPLEPAVVDAFNQAWHLVAHECPNYFR
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

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Activity	Specific activity: approximately < 0.1 units/mg. Enzymatic activity was confirmed by measuring the a mount of enzyme catalyzing the oxidation of 1 umole NADPH per minute at 25°C. Specific activity wa s 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	22977
Protein Accession#	AAH25709
Gene Name	AKR7A3
Gene Alias	AFAR2
Gene Description	aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)
Omim ID	608477
Gene Ontology	Hyperlink
Gene Summary	Aldo-keto reductases, such as AKR7A3, are involved in the detoxification of aldehydes and keton es.[supplied by OMIM
Other Designations	OTTHUMP00000002623|aflatoxin B1 aldehyde reductase 2|aldo-keto reductase family 7, memb er A3

Disease

- Adenocarcinoma
- Esophageal Neoplasms

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