

Recombinant Human AKR7A2 Protein, GST-tagged

Cat. No. AKR7A2-418H Lot. No. (See product label)

SPECIFICATION

Product Overview Human AKR7A2 full-length ORF (AAH04111.3, 1 a.a. - 330 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source Wheat Germ

Description The protein encoded by this gene belongs to the aldo/keto reductase (AKR) superfamily and AKR7 family, which are involved in the detoxification of aldehydes and ketones. The AKR7 family consists of 3 genes that are present in a cluster on the p arm of chromosome 1. This protein, thought to be localized in the golgi, catalyzes the NADPH-dependent reduction of succinic semialdehyde to the endogenous neuromodulator, gamma-hydroxybutyrate. It may also function as a detoxication enzyme in the reduction of aflatoxin B1 and 2-carboxybenzaldehyde. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Molecular Mass 61.82 kDa

AA Sequence

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MSRPPPPRVASVLGTMEMGRRMDAPASAAAVRAFLERGHTELDTAFMYSDGQSET
ILGGLGLGLGGGDCRVKIATKANPWDGKSLKPDSVRSQLETSLKRLQCPQVDFLYL
HAPDHGTPVEETLHACQRLHQEGKFVELGLSNYASWEVAEICTLCKSNGWILPTVY
QGMYNATTRQVETELFPCLRHFGLRFYAYNPLAGLLTGKYKYEDKDGKQPVGRFF
GNSWAETYRNRFWKEHHFEAIALVEKALQAAYGASAPSVTSAALRWMYHHSQLQG
AHGDAVILGMSLEQLEQNLAATEEGPLEPAVVDAFNQAWHLVAHECPNYFR
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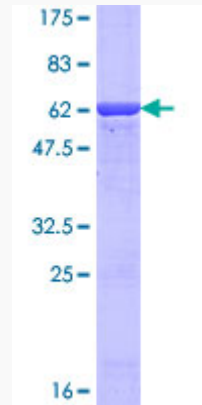
 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	AKR7A2 aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase) [Homo sapiens]
Official Symbol	AKR7A2
Synonyms	AKR7A2; aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase); aflatoxin B1 aldehyde reductase member 2; AFAR; AFB1-AR 1; SSA reductase; aldoketoreductase 7; AFB1 aldehyde reductase 1; succinic semialdehyde reductase; aflatoxin beta1 aldehyde reductase; AKR7; AFAR1; AFB1-AR1;
Gene ID	8574
mRNA Refseq	NM_003689
Protein Refseq	NP_003680
MIM	603418
UniProt ID	O43488

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12.5% SDS-PAGE Stained with Coomassie Blue.

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