

Recombinant Full Length Human AKR7A2 Protein, GST-tagged

Cat. No. AKR7A2-1377HF **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	In Vitro Cell Free System
ProteinLength	330 amino acids
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	MSRPPPPRVA SVLGTMEMGR RMDAPASAAA VRAFLERGH T ELDTAFMYSD GQSETILGGL GLGLGGGDCR VKIATKANPW DGKSLKPDSV RSQLETSLKR LQCPQVDLFY LHAPDHGTPV EETLHACQRL HQEGKFVELG LSNYASWEVA EICTLCKSNG WILPTVYQGM YNATTRQVET ELFPCLR HFG LRFYAYNPLA GGLLTGKYKY EDKDGKQPVG RFFGNSWAET YRNRFWKEHH FEAIALVEKA

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LQAAYGASAP SVTSAALRWM YHHSQLQGAH GDAVILGMSS LEQLEQNLA
TEEGPLEPAV VDAFNQAWHL VAHECPNYFR

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

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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