Recombinant Human AGXT, GST-tagged

Cat. No. AGXT-9487H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AGXT protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-392a.a.
Description	This gene is expressed only in the liver and the encoded protein is localized mostly in the peroxisomes, where it is involved in glyoxylate detoxification. Mutations in this gene, some of which alter subcellular targetting, have been associated with type I primary hyperoxaluria.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	AGXT alanine-glyoxylate aminotransferase [Homo sapiens]
Official Symbol	AGXT

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Synonyms	AGXT; alanine-glyoxylate aminotransferase; SPAT; serine--pyruvate aminotransferase; AGT; AGT1; AGXT1; glycolicaciduria; L alanine: glyoxylate aminotransferase 1; oxalosis I; PH1; primary hyperoxaluria type 1; serine:pyruvate aminotransferase; SPT; serine-pyruvate aminotransferase; alanine--glyoxylate aminotransferase; L-alanine: glyoxylate aminotransferase 1; hepatic peroxisomal alanine:glyoxylate aminotransferase; TLH6;
Gene ID	189
mRNA Refseq	NM_000030
Protein Refseq	NP_000021
MIM	604285
UniProt ID	P21549
Chromosome Location	2q37.3
Pathway	Alanine and aspartate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Glyoxylate and dicarboxylate metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, conserved biosystem;
Function	alanine-glyoxylate transaminase activity; alanine-glyoxylate transaminase activity; amino acid binding; protein binding; protein homodimerization activity; pyridoxal phosphate binding; serine-pyruvate transaminase activity; transferase activity;

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