

Recombinant Human ASL, GST-tagged

Cat. No. ASL-9935H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ASL protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-350a.a.
Description	This gene encodes a member of the lyase 1 family. The encoded protein forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate, an essential step in the liver in detoxifying ammonia via the urea cycle. Mutations in this gene result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency. A nontranscribed pseudogene is also located on the long arm of chromosome 22. Alternatively spliced transcript variants encoding different isoforms have been described.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	ASL argininosuccinate lyase [Homo sapiens]
Official Symbol	ASL
Synonyms	ASL; argininosuccinate lyase; arginosuccinase; argininosuccinase; ASAL;
Gene ID	435
mRNA Refseq	NM_000048
Protein Refseq	NP_000039
MIM	608310
UniProt ID	P04424
Chromosome Location	7q11.21
Pathway	Alanine and aspartate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	argininosuccinate lyase activity; argininosuccinate lyase activity; catalytic activity; lyase activity;