

Recombinant Human ASL protein, MYC/DDK-tagged

Cat. No. ASL-478H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ASL, transcript variant 2, fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
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.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	51.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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;