

Recombinant Human ASL Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ASL-6094H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ASL MS Standard C13 and N15-labeled recombinant protein (NP_001020114) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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.
Molecular Mass	51.7 kDa
AA Sequence	MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLL TKAEMDQILHGLDKVAEEWAQGTFKLNSNDEDIHTANERRLKEIGATAGKLHTGRS RNDQVVTDLRLWMRQTCSTLSGLLWELIRTMVDRAEAERDVLFPGYTHLQRAQPIR WSHWILSHAVALTRDSERLLEVRKRINVLPLGSGAIAGNPLGVDRELLRAELNFGAIT LNSMDATSERDFVAEFLFWASLCMTHLSRMAEDLILYCTKEFSFVQLSDAYSTGSSL

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MPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQEDKEAVFEVSDTM
SAVLQVATGVISTLQIHQENMGQALSPDMLATDLAYYLVRKGMPPRQAHEASGKAV
FMAETKGVALNQLSLQELQTISPLFSGDVICVWDYGHVSVEQYGALGGTARSSVDWQ
IRQVRALLQAQQASGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ASL argininosuccinate lyase \[Homo sapiens \(human\) \]](#)

Official Symbol [ASL](#)

Synonyms ASL; argininosuccinate lyase; arginosuccinase; argininosuccinase; ASAL;

Gene ID [435](#)

mRNA Refseq [NM_001024943](#)

Protein Refseq [NP_001020114](#)

MIM [608310](#)

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UniProt ID

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