

Recombinant Full Length Human ASL Protein, C-Flag-tagged

Cat. No. ASL-578HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ASL Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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
AA Sequence	MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLL TKAEMDQILHGLDKV AEEWAQGTFLNSNDEDIHTANERRLKELIGATAGKLHTGR SRNDQVVTDLRLWMRQTCSTLSGLLWELI RTMVDRAEAERDVLFPGYTHLQRAQPI RWSHWILSHAVALTRDSERLLEVRKRINVLPLGSGAIAGNPLG VDRELLRAELNFGA ITLNSMDATSERDFVAEFLFWASLCMTHLSRMAEDLILYCTKEFSFVQLSDAYSTG S

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SLMPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQEDKEAVFEVSDT
MSAVLQVATGVI STLQIHQENMGQALSPDMLATDLAYYLVRKGMPPFRQAHEASGKA
VFMAETKGVALNQLSLQELQTISPLF
SGDVICVWDYGHSEYQYALGGTARSSVDWQIRQVRALLQAQQASGPTRTRPLEQ
KLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 ug/mL as determined by microplate BCA method.

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Pathways Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways

Full Length Full L.

GENE INFORMATION

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

Official Symbol [ASL](#)

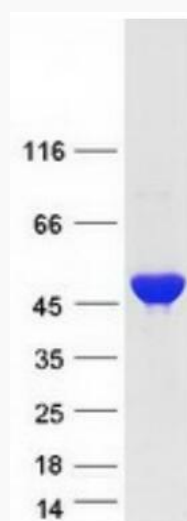
Synonyms ASAL

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Gene ID	435
mRNA Refseq	NM_001024943.2
Protein Refseq	NP_001020114.1
MIM	608310
UniProt ID	P04424



Coomassie blue staining of purified ASL protein.