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

Cat. No. ASL-1888HFL **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 AEEWAQGTFKLNSNDEDIHTANERRLKELIGATAGKLHTGR SRNDQVVTDLRLWMRQTCSTLSGLLWELI RTMVDRAEAERDVLFPGYTHLQRAQPI RWSHWILSHAVALTRDSERLLEVRKRINVLPLGSGAIAGNPLG VDRELLRAELNFGA ITLNSMDATSERDFVAEFLFWASLCMTHLSRMAEDLILYCTKEFSFVQLSDAYSTG S

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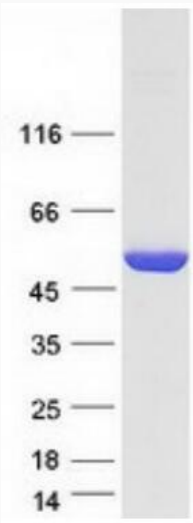
	SLMPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQEDKEAVFEVSDT MSAVLQVATGVI STLQIHQENMGQALSPDMLATDLAYYLVRKGMPFRQAHEASGKA VFMAETKGVALNQLSLQELQTISPLF SGDVICVWDYGHSVEQYGALGGTARSSVD WQIRQVRALLQAQQA SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	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
Gene ID	435

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mRNA Refseq	NM_000048.4
Protein Refseq	NP_000039.2
MIM	608310
UniProt ID	P04424



Coomassie blue staining of purified ASL protein.

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