

Recombinant Full Length Human ASL Protein, GST-tagged

Cat. No. ASL-1022HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ASL full-length ORF (AAH08195, 1 a.a. - 464 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	464 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	76.78 kDa
AA Sequence	MASESGKLWG GRFVGAVDPI MEKFNASIAY DRHLWEVDVQ GSKAYSRGLE KAGLLTKAEM DQILHGLDKV AEEWAQGTKF LNSNDEDIHT ANERRLKELI GATAGKLHTG RSRNDQVVTD LRLWMRQTCS TLGGLLWELI RTMVDRAEAE RDVLFPGYTH LQRAQPIRWS HWILSHAVAL TRDSERLLEV RKRINVLPLG SGAIAGNPLG VDRELLRAEL NFGAITLSNM DATSERDFVA ELLFWASLCM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

THLSRMAEDL ILYCTKEFSF VQPSDAYSTG SSLMPQKKNP DSLELIRSKA
 GRVFGRCAGL LMTLKGLPST YNKDLQEDKE AVFEVSDTMS AVLQVATGVI
 STLQIHQENM GQALSPDMLA TDLAYYLVRK GMPFRQAHEA SGKAVFMAET
 KGVALNQLSL QELQTISPLF SGDVICVWDY GHSVEQYGAL GGTARSSVDW
 QIRQVRALLQ AQQA

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

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