

Argininosuccinate Lyase Recombinant Protein | ASL recombinant protein

Recombinant Human Argininosuccinate Lyase

CATALOG # AAA38933	HOST E Coli
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PRODUCT SYNONYMS

Argininosuccinate Lyase; Recombinant Human Argininosuccinate Lyase; ASL Human; Argininosuccinate Lyase Human Recombinant; Argininosuccinate lyase; ASAL; Argininosuccinase; ASL; ASL recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The ASL solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 100mM NaCl. Sterile Filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMAS ESGKLWGGRF VGAVDPIMEK FNASIAYDRH LWEVDVQGSK AYSRGLEKAG LLTKAEMDQI LHGLDKVAEE WAQGTFLNS NDEDIHTANE RRLKELIGAT AGKLHTGRSR NDQVVDLRL WMRQTCSTLS GLLWELIRTM VDRAEAERDV LFPGYTHLQR AQPIRWSHWI LSHAVALTRD SERLLEVRKR INVPLGSGA IAGNPLGVDR ELLRAELNFG AITLNSMDAT SERDFVAEFL FWASLCMTHL SRMAEDLILY CTKEFSFVQL SDAYSTGSSL MPQKKNPDSL ELIRSKAGRV FGRCAGLLMT LKGLPSTYNK DLQEDKEAVF EVSDTMSAVL QVATGVISTL QIHQENMGQA LSPDMLATDL AYYLVRKGMP FRQAHEASGK AVFMAETKGV ALNQLSLQEL QTISPLFSGD VICWDYGHGS VEQYGALGGT ARSSVDWQIR QVRALLQAQQ A.
Sequence Length	464
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for ASL recombinant protein	Description: ASL Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 484 amino acids (1-464) and having a molecular mass of 53.8kDa. ASL is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: Argininosuccinate lyase (ASL) is a member of the lyase 1 family. ASL is an enzyme which catalyzes the reversible breakdown of Argininosuccinate (ASA) yielding the amino acids arginine and fumarate. ASL which is located in the liver cytosol is the 4th enzyme of the urea cycle and involved in the biosynthesis of arginine in all species and the production of urea in ureotelic species. While Argininosuccinate synthetase (ASS) catalyzes the formation of argininosuccinate from citrulline and aspartate, ASL breaks down the newly formed argininosuccinate into L-arginine and fumarate. L-arginine continues within the urea cycle to form urea and ornithine, whereas fumarate can enter the citric acid cycle. ASL gene Mutations result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency.
Product Categories/Family for ASL recombinant protein	Enzymes; Lyase

NCBI AND UNIPROT INFORMATION

NCBI GI #	31541964
NCBI GeneID	435

NCBI Accession #	NP_000039.2
NCBI GenBank Nucleotide #	NM_000048.3
UniProt Accession #	P04424; Q6LDS5; Q96HS2; E7EMI0; E9PE48
Molecular Weight	48,733 Da
NCBI Official Full Name	argininosuccinate lyase isoform 1
NCBI Official Synonym Full Names	argininosuccinate lyase
NCBI Official Symbol	ASL
NCBI Official Synonym Symbols	ASAL
NCBI Protein Information	argininosuccinate lyase; argininosuccinase; arginosuccinase
UniProt Protein Name	Argininosuccinate lyase
UniProt Gene Name	ASL
UniProt Synonym Gene Names	ASAL
UniProt Entry Name	ARLY_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/asl-recombinant-protein-e-coli/38933>