# Recombinant Rat Argininosuccinate lyase (Asl)

| | |
|---|---|
| **Product Code** | CSB-EP002213RA-B |
| **Storage** | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| **Uniprot No.** | P20673 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Rattus norvegicus (Rat) |
| **Purity** | >85% (SDS-PAGE) |
| **Sequence** | MASESGKLWG GRFAGSVDPT MDKFNSSIAY DRHLWNVDLQ GSKAYSRGLE KAGLLTKAEM QQILQGLDKV AEEWAQGIFK LYPNDEDIHT ANERRLKELI GEAAGKLHTG RSRNDQVVTD LRLWMRQTYS KLSTFLKVLI EAMVDRAEAE CEVLFPGYTH LQRAQPIRWS HWILSHAVAL TRDLERLKEV QKRINVLPLG SGAIAGNPLG VDREFLCAEL NFGAITLNSM DATSERDFVA EFLFWASLCM THLSRMAEDL ILYGTKEFNF VQLSDAYSTG SSLMPQKKNP DSLELIRSKA RRVFGRCAGL LMTLKGLPST YNKDLQEDKE AVFEVSDTMT AVLQVATGVI STLQIHRENM AQALSPDMLA TDLAYYLVRK GMPFRQAHEA SGKAVVVAEM KGVALNQLSL QELQTVSPLF SSDVNLVWDY SHSVEQYTAL GGTAQSSVEW QISQVRALLQ M |
| **Source** | E.coli |
| **Target Names** | Asl |
| **Protein Names** | Recommended name: Argininosuccinate lyase Short name= ASAL EC= 4.3.2.1 Alternative name(s): Arginosuccinase |
| **Expression Region** | 1-461 |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | Tag type will be determined during the manufacturing process. |
| **Protein Length** | Full length protein |
| **Target Details** | 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. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| **Shelf Life** | The shelf life is related to many factors, storage state, buffer ingredients, |

storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.