



Recombinant Rat Argininosuccinate Lyase (Asl)

Product Code	CSB-MP002213RA
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 MDKFNSSIA Y DRHLWNVDLQ GSKAYSRGLE KAGLLTKAEM QQILQGLDKV AEEWAQGIFK LYPNDEDIHT ANERRKELI GEAAGKLHTG RSRNDQVVD LRLWMRQTYS KLSTFLKVL I 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	Mammalian cell
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.