Recombinant Chicken Adenylosuccinate lyase (ADSL)

Product Code	CSB-YP001397CH
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P21265
Product Type	Recombinant Protein
Immunogen Species	Gallus gallus (Chicken)
Purity	>85% (SDS-PAGE)
Sequence	MATPCAEEDP LARYRSPLVS RYASAEMGFN FSERKKFGTW RRLWLYLAQA EKSLGLPITD EQIKEMEANL DNIDFKMAAE EEKKLRHDVM AHVHTFAHCC PKAAAIIHLG ATSCYVGDNT DLIVLRDGFN LLLPKLARVI SRLADFAETH ADLPTLGFTH YQPAQLTTVG KRCCLWIQDL CMDLQNLERA RDDLRFRGVK GTTGTQASFL QLFEGDHSKV EELDRLVTAK AGFKRSYMVT GQTYSRKVDI EVLSVLASLG ASVHKICTDI RLLANLKEIE EPFEKDQIGS SAMPYKRNPM RSERCCSLAR HLMTLVLDPL QTASVQWFER TLDDSANRRV CLAEAFLTAD IILSTLQNIS EGLVVYPKVI DRRIRQELPF MATENIIMAM VKAGGNRQDC HEKIRVLSQQ AAAVVKQEGG DNDFIARVRA DPYFSPIHEH LDSLLDPSSF TGRAPQQVAK FLKEEVRPAL IPYQSMMGGK IELTL
Source	Yeast
Target Names	ADSL
Protein Names	Recommended name: Adenylosuccinate lyase Short name= ASL EC= 4.3.2.2 Alternative name(s): Adenylosuccinase Short name= ASase
Expression Region	1-485
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	Adenylsuccinate lyase is involved in both de novo synthesis of purines and formation of adenosine monophosphate from inosine monophosphate. It catalyzes two reactions in AMP biosynthesis: the removal of a fumarate from succinylaminoimidazole carboxamide (SAICA) ribotide to give aminoimidazole carboxamide ribotide (AICA) and removal of fumarate from adenylosuccinate to give AMP. Adenylosuccinase deficiency results in succinylpurinemic autism, psychomotor retardation, and , in some cases, growth retardation associated with muscle wasting and epilepsy. Two transcript variants encoding different isoforms have been found for this gene.
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.