

# Recombinant human Adenylosuccinate lyase/ADSL protein

Catalog Number: ATGP1275

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-484aa

### UniProt No.

P30566

### NCBI Accession No.

NP\_000017

### Alternative Names

Adenylosuccinate lyase, AMPS, ASASE, ASL

## PRODUCT SPECIFICATION

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### Molecular Weight

59 kDa (520aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1M NaCl

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Adenylosuccinate lyase, also known as ADSL, is an enzyme that converts adenylosuccinate to AMP and fumarate as part of the purine nucleotide cycle. Defects in ADSL are the cause of adenylosuccinase deficiency (ADSL deficiency). ADSL deficiency is an autosomal recessive disorder characterized by the accumulation in the body fluids of succinylaminoimidazole-carboxamide riboside (SAICA-riboside) and succinyladenosine (S-Ado). Recombinant human ADSL protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

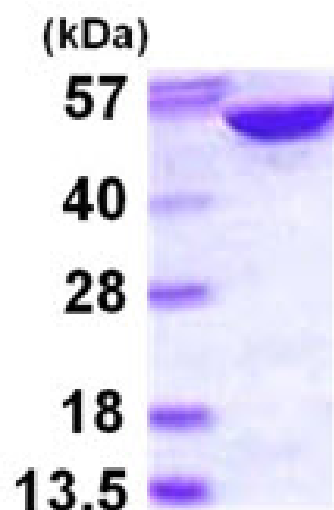
MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSMAAG GDHGSPDSYR SPLASRYASP EMCVFVSDRY  
KFRTWRQLWL WLAEAEQTLG LPITDEQIQE MKSNLENIDF KMAAEEEEKRL RHDVMAHVHT FGHCCPKAAG IIHLGATSCY  
VGDNTDLIIL RNALDLLLLPK LARVISRLAD FAKERASLPT LGFTHFQPAQ LTTVGKRCCL WIQDLCMDLQ NLKRVRRDDL  
FRGVKGTGT QASFLQLFEG DDHKVEQLDK MVTEKAGFKR AFIITGQTYT RKVDIEVLSV LASLGASVHK ICTDIRLLAN  
LKEMEEPFEK QQIGSSAMPY KRNPMSERC CSLARHLMTL VMDPLQTASV QWFERTLDDS ANRRICLAEA FLTADTILNT  
LQNISEGLVV YPKVIERRR QELPFMATEN IIMAMVKAGG SRQDCHEKIR VLSQQAASV VQEGGDNDLI ERIQVDAYFS  
PIHSQLDHLL DPSSFTGRAS QQVQRFLEEE VYPLLKPYES VMKVKAELCL

## General References

Marie S., et al. (2002) Am J Hum Genet. 71:14-21.  
Knoch S., et al. (2000) Hum Mal Genet. 9:1501-1513.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)