Recombinant human Adenylosuccinate lyase/ADSL protein

Catalog Number: ATGP1275

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-484aa

UniProt No.
P30566

NCBI Accession No.
NP_000017

Alternative Names
Adenylosuccinate lyase, AMPS, ASASE, ASL

PRODUCT SPECIFICATION

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

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

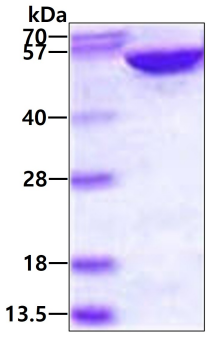
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MAAG GDHGSPDSYR SPLASRYASP EMCFVFSDRY KFRTWRQLWL WLAEAEQTLG LPITDEQIQE MKSNLENIDF KMAAEEEKRL RHDVMAHVHT FGHCCPKAAG IIHLGATSCY VGDNTDLIIL RNALDLLLPK LARVISRLAD FAKERASLPT LGFTHFQPAQ LTTVGKRCCL WIQDLCMDLQ NLKRVRDDLR FRGVKGTTGT QASFLQLFEG DDHKVEQLDK MVTEKAGFKR AFIITGQTYT RKVDIEVLSV LASLGASVHK ICTDIRLLAN LKEMEEPFEK QQIGSSAMPY KRNPMRSERC CSLARHLMTL VMDPLQTASV QWFERTLDDS ANRRICLAEA FLTADTILNT LQNISEGLVV YPKVIERRIR QELPFMATEN IIMAMVKAGG SRQDCHEKIR VLSQQAASVV KQEGGDNDLI ERIQVDAYFS PIHSQLDHLL DPSSFTGRAS QQVQRFLEEE VYPLLKPYES VMKVKAELCL

General References

Marie S., et al. (2002) Am J Hum Genet. 71:14-21.
Kmoch 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.