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AR50100PU-N Human Adenylosuccinate lyase / ASL (1-484, His-tag) - Purified

Alternate names: ADSL, AMPS, Adenylosuccinase

Quantity: 0.5 mg

Concentration: 1 mg/ml (determined by Bradford assay)

Background: 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).

Uniprot ID: P30566

NCBI: NP_000017

GeneID: 158

Species: Human

Source: E. coli

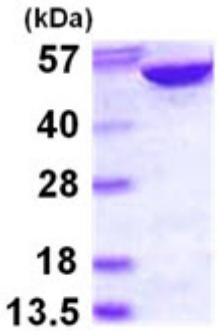
Format:
State: Liquid purified protein
Purity: >95% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1M NaCl

Description: Recombinant human ADSL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAAG 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
Molecular weight: 59 kDa (520aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

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

Pictures:



15% SDS-PAGE (3ug)