# Product information

## ADSL, 1-484aa

**Human, His-tagged, Recombinant, *E.coli***

**Cat. No. IBATGP1275**

**Full name:** Adenylosuccinate lyase

**NCBI Accession No.:** NP_000017

**Synonyms:** AMPS, ASASE, ASL

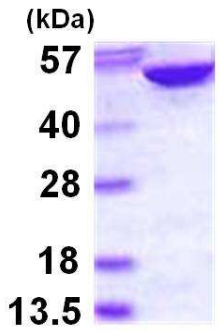
**Description**: Adenylosuccinate lyase, also known as ADSL, is an enzyme that converts adenylosuccinate to AMP and fumarate as part of the purine nucleotide cycle. Defects in ADSL are the cause of adenylosuccinase deficiency (ADSL deficiency). ADSL deficiency is an autosomal recessive disorder characterized 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.

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

**Molecular Weight:** 59 kDa (520aa)

**Purity:** > 95% by SDS - PAGE

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



15% SDS-PAGE (3ug)

**Sequences of amino acids:**

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

### 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.


**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.




*Manufactured for:*
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