

Product datasheet for **AR50100PU-N**

Adenylosuccinate lyase / ASL (1-484, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Adenylosuccinate lyase / ASL (1-484, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAG GDHGSPDSYR SPLASRYASP EMCFVFSDRY KFRTWRQLWL WLAEAEQTLG LPITDEQIQE MKSNLENIDF KMAAEEEEKRL RHDVMAHVHT FGHCCPKAAG IHLGATSCY VGDNTDLIIL RNALDLLLPK LARVISRLAD FAKERASLPT LGFTHFQPAQ LTTVGKRCL WIQDLCMDLQ NLKRVRRDDL FRGVKTTGT QASFLQLFEG DDHKVEQLDK MVTEKAGFKR AFIITGQTYT RKVDIEVLSV LASLGASVHK ICTDIRLLAN LKEMEEPFEK QQIGSSAMPY KRNPMRSERC CSLARHLMTL VMDPLQTASV QWFERTLDDS ANRRICLAE FLTADTILNT LQNISEGLV YPKVIERRIR QELPFMATEN IIMAMVKAGG SRQDCHEKIR VLSQQAASV KQEGGDNDLI ERIQVDAYFS PIHSQLDHLL DPSSFTGRAS QQVQRFLEEE VYPLLKPYES VMKVKAELCL
Tag:	His-tag
Predicted MW:	59 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 40% glycerol, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human ADSL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000017</u>
Locus ID:	158



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UniProt ID: [P30566](#), [X5D8S6](#)

Cytogenetics: 22q13.1

Synonyms: AMPS; ASASE; ASL

Summary: The protein encoded by this gene belongs to the lyase 1 family. It is an essential enzyme involved in purine metabolism, and catalyzes two non-sequential reactions in the de novo purine biosynthetic pathway: the conversion of succinylaminoimidazole carboxamide ribotide (SAICAR) to aminoimidazole carboxamide ribotide (AICAR) and the conversion of adenylosuccinate (S-AMP) to adenosine monophosphate (AMP). Mutations in this gene are associated with adenylosuccinase deficiency (ADSLD), a disorder marked with psychomotor retardation, epilepsy or autistic features. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2015]

Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism

Product images:

