

Recombinant Human Adenylosuccinate Lyase , His-tagged

Cat. No. ADSL-1526H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ADSL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
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.
Molecular Weight	59kDa (520aa)
Form	Liquid. In 20mM Tris-HCl buffer (PH 8.0) containing 1mM DTT, 40% glycerol, 0.1 mM NaCl
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAG GDHGSPDSYR

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acids

SPLASRYASP EMCVFVSDRY KFRTWRQLWL WLAEAEQTLG LPITDEQIQE
 MKSNLENIDF KMAAEEEEKRL RHDVMAHVHT FGHCCPKAAG IIHLGATSCY
 VGDNTDLIIL RNALDLLLLPK LARVISRLAD FAKERASLPT LGFTHFQPAQ
 LTTVGKRCCCL WIQDLCMDLQ NLKRVRRDLR FRGVKGTTGT QASFLQLFEG
 DDHKVEQLDK MVTEKAGFKR AFIITGQTYT RKVDIEVLSV LASLGASVHK
 ICTDIRLLAN LKEMEPEFEK QQIGSSAMPY KRNPMRSERC CSLARHMLTL
 VMDPLQTASV QWFERTLDDS ANRRICLAEA FLTADTILNT LQNISEGLVV
 YPKVIERRIR QELPFMATEN IIMAMVKAGG SRQDCHEKIR VLSQQAASVV
 KQEGGDNDLI ERIQVDAYFS PIHSQLDHLL DPSSFTGRAS QQVQRFLEEE
 VYPLLKPYES VMKVKAELCL

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.

GENE INFORMATION
Gene Name

ADSL Adenylosuccinate Lyase [Homo sapiens]

Official Symbol

ADSL

Synonyms

ADSL; adenylosuccinate lyase; adenylosuccinase; ASL; AMPS; ASASE; ASase;
 Adenylosuccinase; EC4.3.2; EC4.3.2.2; OTTHUMP0000199172;
 OTTHUMP0000199173

Gene ID

158

mRNA Refseq

NM_000026

Protein Refseq

NP_000017

MIM

60822

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UniProt ID	P30566
Chromosome Location	22q13.1
Function	(S)-2-(5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxamido)succinate AMP-lyase (fumarate-forming) activity; N6-(1,2-dicarboxyethyl)AMP AMP-lyase (fumarate-forming) activity; NOT N6-(1,2-dicarboxyethyl)AMP AMP-lyase (fumarate-forming) activity; N6-(1,2-dicarboxyethyl)AMP AMP-lyase (fumarate-forming) activity; lyase activity

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