

**ADSL, 1-484aa, Human, His tag, E.coli**

**Cat.NO.: TP01077**

3th Edition

**Synonyms:**Adenylosuccinate lyase, 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)

**Sequences:**

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMAAGGDHGGSPDSYRSPLASRYASPEMCFVFSDRYK  
FRTWRQLWLWLAEAEQTLGLPITDEQIQEMKSNLENIDFKMAAEEEEKRLRHDVMAHVHTFGHCCPKAAGIIHLGAT  
SCYVGDNTDLIILRNALDLLLPKLARVISRLADFAKERASLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKRV  
RDDLRFRGVKGTGTQASFLQLFEGDDHKVEQLDKMVTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKIC  
TDIRLLANLKEMEFPFEKQQIGSSAMPYKRNPMRSECCSLARHLMTLVMDPLQTASVQWFERTLDDSANRRICLA  
EAFLTADTILNTLQNISEGLVVYPKVIERRIRQELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVKQEGGD  
NDLIERIQVDAYFSPIHSQLDHLLDPSSFTGRASQQVQRFLEEEVYPLLKPYESVMKVKAECL

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.