

Product datasheet for **TP300524L**

Adenylosuccinate Lyase (ADSL) (NM_000026) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human adenylosuccinate lyase (ADSL), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200524 protein sequence Red =Cloning site Green =Tags(s)

MAAGGDHGSPDSYRSPLASRYASPEMCFVFSDDRYKFRWTWRQLWLWLAEAEQTLGLPITDEQIQEMKSNLE
NIDFKMAAEEEEKRLRHDVMAHVHTFGHCCKAAGIIHLGATSCYVGDNTDLIILRNALDLLLPKLARVIS
RLADFAKERASLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKRVRRDDLFRFGVKGTTGTQASFLQ
LFEGDDHKVEQLDKMVTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEE
PFEKQQIGSSAMPYKRNPMSRERCCSLARHLMTLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADT
ILNTLQNISEGLVVYPKVIERRIRQELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVKQEGGD
NDLIERIQVDAYFSPHSQLDHLDPSSFTGRASQQVQRFLEEEVYPLLKPYESVMKVKAELCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	54.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_000017</u>



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Locus ID: 158

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

RefSeq Size: 1565

Cytogenetics: 22q13.1

RefSeq ORF: 1452

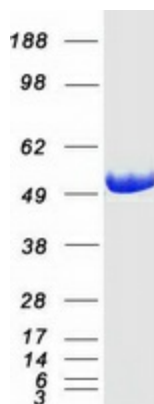
Synonyms: AMPS; ASASE; ASL

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:



Coomassie blue staining of purified ADSL protein (Cat# [TP300524]). The protein was produced from HEK293T cells transfected with ADSL cDNA clone (Cat# [RC200524]) using MegaTran 2.0 (Cat# [TT210002]).