

Product datasheet for PH300524

Adenylosuccinate Lyase (ADSL) (NM_000026) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ADSL MS Standard C13 and N15-labeled recombinant protein (NP_000017)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200524
Predicted MW:	54.9 kDa
Protein Sequence:	>RC200524 protein sequence Red=Cloning site Green=Tags(s)

MAAGGDHGPSYRSPLASRYASPEMCFVFSDRYKFRWQRLWLWLAEEQTLGLPITDEQIQEMKSNLE
NIDFKMAAEEKRLRHDVMAHVHTFGHCCPKAAGIIHLGATSCYVGDNTDLIILRNALDLLPKLARVIS
RLADFAKERASLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKRVRRDLFRGVKGTGTQASFLQ
LFEGDDHKVEQLDKMVTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEE
PFEKQQIGSSAMPYKRNPMSRERCCSLARHMLTLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADT
ILNLTQNISEGLVVPYKVIERRIQELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVKQEGGD
NDLIERIQVDAYFSPIHSQLDHLDPSSFTGRASQQVQRFLSEEVYPLLKPYESVMKVKAELCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000017</u>
RefSeq Size:	1565
RefSeq ORF:	1452
Synonyms:	AMPS; ASASE; ASL



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Locus ID: 158

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

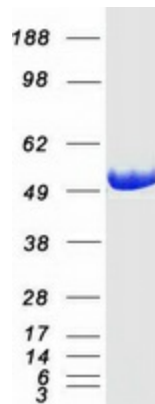
Cytogenetics: 22q13.1

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]).