

Recombinant Human ADSL Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ADSL-5617H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ADSL MS Standard C13 and N15-labeled recombinant protein (NP_000017) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	54.9 kDa
AA Sequence	MAAGGDHGGSPDSYRSPLASRYASPEMCFVFSDRYKFRTWRQLWLWLAEAEQTLG LPITDEQIQEMKSNLENIDFKMAAEEEEKRLRHDVMAHVHTFGHCCPKAAGIIHLGATS CYVGDNTDLILRNALDLLLLPKLARVISRLADFAKERASLPTLGFTHFQPAQLTTVGKR CCLWIQDLQDLQNLKRVRRDDLRFGRGVKGTGTQASFLQLFEGDDHKVEQLDKMV TEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEPEFEKQ

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QIGSSAMPYKRNPMSERCCSLARHMLTMLVMDPLQTASVQWFERTLDDSANRRICL
 AEAFLTADTILNTLQNISEGLVVYPKVIERRIRQELPFMATENIIMAMVKAGGSRQDCH
 EKIRVLSQQAASVVKQEGGDNDLIERIQVDAYFSPIHSQLDHLLDPSSFTGRASQQV
 QRFLEEEVYPLLKPYESVMKVKAELCLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ADSL adenylosuccinate lyase [Homo sapiens (human)]

Official Symbol ADSL

Synonyms ADSL; adenylosuccinate lyase; adenylosuccinase; ASL; AMPS; ASASE;

Gene ID 158

mRNA Refseq NM_000026

Protein Refseq NP_000017

MIM 608222

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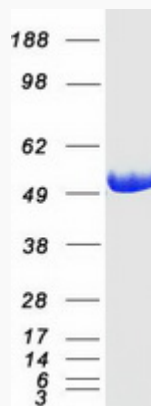
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UniProt ID

P30566

SDS-PAGE

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