

Recombinant Human ADSL Protein, His-tagged

Cat. No. ADSL-90H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADSL Protein (Ala146-Leu484) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala146-Leu484
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 42.2 kDa Accurate Molecular Mass: 42 kDa
Purity	> 95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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
UniProt ID	P30566

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