

Product Data Sheet

ADSL/Adenylosuccinate Lyase Protein, Human (His)

Cat. No.: HY-P75565

Synonyms: Adenylosuccinate lyase; ADSL; ASL; Asase; AMPS

Species: Source: E. coli

Accession: P30566-1 (M1-L484)

Gene ID: 158

Molecular Weight: Approximately 56 kDa

PROPERTIES

AA Sequence	MAAGGDHGSP DSYRSPLASR YASPEMCFVF SDRYKFRTWR QLWLWLAEAE QTLGLPITDE QIQEMKSNLE NIDFKMAAEE EKRLRHDVMA HVHTFGHCCP KAAGIIHLGA TSCYVGDNTD LIILRNALDL LLPKLARVIS RLADFAKERA SLPTLGFTHF QPAQLTTVGK RCCLWIQDLC MDLQNLKRVR DDLRFRGVKG TTGTQASFLQ LFEGDDHKVE QLDKMVTEKA GFKRAFIITG QTYTRKVDIE VLSVLASLGA SVHKICTDIR LLANLKEMEE PFEKQQIGSS AMPYKRNPMR SERCCSLARH LMTLVMDPLQ TASVQWFERT LDDSANRRIC LAEAFLTADT ILNTLQNISE GLVVYPKVIE RRIRQELPFM ATENIIMAMV KAGGSRQDCH
	EKIRVLSQQA ASVVKQEGGD NDLIERIQVD AYFSPIHSQL DHLLDPSSFT GRASQQVQRF LEEEVYPLLK PYESVMKVKA ELCL
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4, 10% Glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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DESCRIPTION

Background

ADSL (Adenylosuccinate Lyase) protein serves as the catalyst for two non-sequential steps in de novo AMP synthesis. Firstly, it converts (S)-2-(5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxamido)succinate (SAICAR) to fumarate along with 5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxamide, thereby contributing to de novo IMP synthesis. In a separate step, ADSL converts succinyladenosine monophosphate (SAMP) to AMP and fumarate. Through these enzymatic actions, ADSL plays a crucial role in the intricate metabolic pathway leading to the synthesis of adenosine monophosphate (AMP), a fundamental component in nucleotide biosynthesis.

Caution: Product has not been fully validated for medical applications. For research use only.

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