

Recombinant Full Length Human ADSL Protein, GST-tagged

Cat. No. ADSL-981HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ADSL full-length ORF (NP_000017.1, 1 a.a. - 484 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	484 amino acids
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. [provided by RefSeq, Dec 2015]
Molecular Mass	81.3 kDa
AA Sequence	MAAGGDHGSP DSYRSPLASR YASPEMCFVF SDRYKFRTWR QLWLWLAEAE QTLGLPITDE QIQEMKSNLE NIDFKMAAEE EKRLRHDVMA HVHTFGHCCP KAAGIIHLGA TSCYVGDNLD LIILRNALDL LLPKLARVIS RLADFAKERA SLPTLGFTHF QPAQLTTVGK RCCLWIQDLC MDLQNLKRVR DDLRFRGVKG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TTGTQASFLQ LFEGDDHKVE QLDKMOVTEKA GFKRAFIITG QTYTRKVDIE
 VLSVLASLGA SVHKICTDIR LLANLKEMEE PFEKQQIGSS AMPYKRNPMP
 SERCCSLARH LMTLVMDPLQ TASVQWFERT LDDSANRRIC LAEAFLTADT
 ILNLTQNISE GLVVYPKVIE RRIRQELPFM ATENIIMAMV KAGGSRQDCH
 EKIRVLSQQA ASVVKQEGGD NDLIERIQVD AYFSPIHSQL DHLLDPSSFT
 GRASQQVQRF LEEEVYPLLK PYESVMKVKA ELCL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ADSL adenylosuccinate lyase [Homo sapiens]

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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UniProt ID

P30566

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