
Product Data Sheet

Product Name: ASL Human
 Cat. No.: GP21417
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Argininosuccinate lyase; ASAL; Arginosuccinase; ASL.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MASESGKLWG GRFVGAVDPI MEKFNASIAY DRHLWEVDVQ GSKAYSRGLE KAGLLTKAEM DQILHGLDKV AEEWAQGTKF LNSNDEDIHT ANERRLKELI GATAGKLHTG RSRNDQVVTD LRLWMRQTCS TLSGLLWELI RTMVDRAEAE RDVLFPGYTH LQRAQPIRWS HWILSHAVAL TRDSERLLEV RKRINVLPLG SGAIAGNPLG VDRELLRAEL NFGAITLNSM DATSERDFVA EFLFWASLCM THLSRMAEDL ILYCTKEFSF VQLSDAYSTG SSLMPQKKNP DSLELIRSKA GRVFGRCAGL LMTLKGLPST YNKDLQEDKE AVFEVSDTMS AVLQVATGVI STLQIHQENM GQALSPDMLA TDLAYYLVRK GMPFRQAHEA SGKAVFMAET KGVALNQLSL QELQTISPLF SGDVICVWDY GHSVEQYGAL GGTARSSVDW QIRQVRALLQ AQQA.		
Formulation	The ASL solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 100mM NaCl.		

Introduction

Argininosuccinate lyase (ASL) is a member of the lyase 1 family. ASL is an enzyme which catalyzes the reversible breakdown of Argininosuccinate (ASA) yielding the amino acids arginine and fumarate. ASL which is located in the liver cytosol is the 4th enzyme of the urea cycle and involved in the biosynthesis of arginine in all species and the production of urea in ureotelic species. While Argininosuccinate synthetase (ASS) catalyzes the formation of argininosuccinate from citrulline and aspartate, ASL breaks down the newly formed argininosuccinate into L-arginine and fumarate. L-arginine continues within the urea cycle to form urea and ornithine, whereas fumarate can enter the citric acid cycle. ASL gene Mutations result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency.

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

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Stability

NPL Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze thaw cycles.

Background

ASL Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 484 amino acids (1-464) and having a molecular mass of 53.8kDa.ASL is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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