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Product datasheet for PH317527

Argininosuccinate Lyase (ASL) (NM_000048) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ASL MS Standard C13 and N15-labeled recombinant protein (NP_000039)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217527
Predicted MW:	51.5 kDa
Protein Sequence:	>RC217527 representing NM_000048 Red=Cloning site Green=Tags(s) MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLLTKAEMDQILHGLDKV AEEWAQGTFKLNSNDEDIHTANERRLKELIGATAGKLHTGRSRNDQVVTDLRLWMRQTCSTLSGLLWELI RTMVDRAEAERDVLFPGYTHLQRAQPIRWSHWILSHAVALTRDSERLLEVRKRINVLPLGSGAIAGNPLG VDRELLRAELNFGAITLNSMDATSERDFVAEFLFWASLCMTHLSRMAEDLILYCTKEFSFVQLSDAYSTG SSLMPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQEDKEAVFEVSDTMSAVLQVATGVI STLQIHQENMGQALSPDMLATDLAYYLVRKGMPFRQAHEASGKAVFMAETKGVALNQLSLQELQTISPLF SGDVICVWDYGHSVEQYGALGGTARSSVDWQIRQVRALLQAQQA SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000039
RefSeq Size:	1937
RefSeq ORF:	1392
Synonyms:	ASAL

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Locus ID: 435

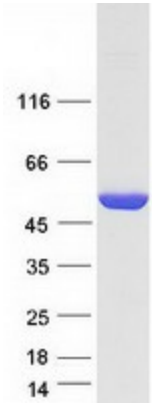
UniProt ID: P04424, A0A024RDL8

Cytogenetics: 7q11.21

Summary: This gene encodes a member of the lyase 1 family. The encoded protein forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate, an essential step in the liver in detoxifying ammonia via the urea cycle. Mutations in this gene result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency. A nontranscribed pseudogene is also located on the long arm of chromosome 22. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Protein Pathways: Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified ASL protein (Cat# [TP317527]). The protein was produced from HEK293T cells transfected with ASL cDNA clone (Cat# [RC217527]) using MegaTran 2.0 (Cat# [TT210002]).