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Product datasheet for PH301568

Argininosuccinate Lyase (ASL) (NM_001024943) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ASL MS Standard C13 and N15-labeled recombinant protein (NP_001020114)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201568
Predicted MW:	51.7 kDa
Protein Sequence:	>RC201568 protein sequence Red=Cloning site Green=Tags(s) MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLLTKAEMDQILHGLDKV AEEWAQGTFKLNSNDEDIHTANERRLKELIGATAGKLHTGRSRNDQVVTDLRLWMRQTCSTLSGLLWELI RTMVDRAEAERDVLFPGYTHLQRAQPIRWSHWILSHAVALTRDSERLLEVRKRINVLPLGSGAIAGNPLG VDRELLRAELNFGAITLNSMDATSERDFVAEFLFWASLCMTHLSRMAEDLILYCTKEFSFVQLSDAYSTG SSLMPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQEDKEAVFEVSDTMSAVLQVATGVI STLQIHQENMGQALSPDMLATDLAYYLVRKGMPFRQAHEASGKAVFMAETKGVALNQLSLQELQTISPLF SGDVICVWDYGHSVEQYGALGGTARSSVDWQIRQVRALLQAQQA SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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_001020114
RefSeq Size:	2061
RefSeq ORF:	1392
Synonyms:	ASAL

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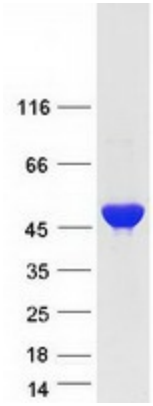
Locus ID:	435
UniProt ID:	P04424, A0A024RDL8
Cytogenetics:	7q11.21
Summary:	This gene encodes a member of the lyase 1 family. The encoded protein forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate, an essential step 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# [TP301568]). The protein was produced from HEK293T cells transfected with ASL cDNA clone (Cat# [RC201568]) using MegaTran 2.0 (Cat# [TT210002]).