

Product datasheet for PH304649

Arginase 1 (ARG1) (NM_000045) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ARG1 MS Standard C13 and N15-labeled recombinant protein (NP_000036)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204649
Predicted MW:	34.7 kDa
Protein Sequence:	>RC204649 protein sequence Red=Cloning site Green=Tags(s) MSAKSRTIGIIGAPFSKGQPRGGVEEGPTVLRKAGLLEKLKEQECVDKDYGDLPFADIPNDSPFQIVKNP RSVGKASEQLAGKVAEVKKNGRISLVLGGDHS LAIGSISGHARVHPDLGVIWVDAHTDINTPLTTTSGNL HGQPVSFLLKELKGIKIPDVPGFVSWVTPCISAKDIVYIGLRDVPGEHYILKTLGIKYFSMTEVDRLGIGK VMEETLSYLLGRKKRPIHLSFDVDGLDPSFTPATGTPVVGGLTYREGLYITEEIIYKTGLLSGLDIMEVNP SLGKTPEEVTRTVNTAVAITLACFGLAREGNHKPIDYLNPPK TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	<u>NP_000036</u>
RefSeq Size:	1475
RefSeq ORF:	966
Locus ID:	383
UniProt ID:	<u>P05089</u>



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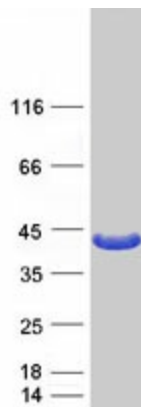
Cytogenetics: 6q23.2

Summary: Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified ARG1 protein (Cat# [TP304649]). The protein was produced from HEK293T cells transfected with ARG1 cDNA clone (Cat# [RC204649]) using MegaTran 2.0 (Cat# [TT210002]).