

Recombinant Human ARG1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ARG1-2961H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARG1 MS Standard C13 and N15-labeled recombinant protein (NP_000036) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	34.7 kDa
AA Sequence	MSAKSRTIGIIGAPFSKGQPRGGVEEGPTVLRKAGLLEKLKEQECVDKDYGDLPFAD IPNDSPFQIVKNPRSVGKASEQLAGKVAEVKKNRISLVLGGDHSLAIGSISGHARVH PDLGVIWVDAHTDINTPLTTTSGNLHGQPVSFLLKELKGKIPDVPGFSSWVTPCISAKD IVYIGLRDVPGEHYILKTLGIKYFSMTEVDRLGIGKVMEEETLSYLLGRKKRPIHLSFD VDGLDPSFTPATGTPVVGGLTYREGLYITEEIYKTGLLSGLDIMEVNPSLGKTPEEV

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	RTVNTAVAITLACFGLAREGNHKPIDYLNPPKTRTRPLEQKLISEEDLAANDILDYKDD DDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

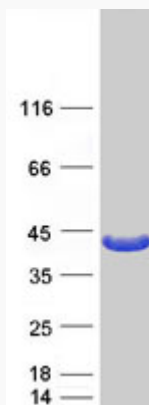
GENE INFORMATION

Gene Name	ARG1 arginase 1 [Homo sapiens (human)]
Official Symbol	ARG1
Synonyms	ARG1; arginase, liver; arginase-1; type I arginase; liver-type arginase;
Gene ID	383
mRNA Refseq	NM_000045
Protein Refseq	NP_000036
MIM	608313
UniProt ID	P05089

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SDS-PAGE

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