

Recombinant Human ARG2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ARG2-3403H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARG2 MS Standard C13 and N15-labeled recombinant protein (NP_001163) 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 exists (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type II isoform encoded by this gene, is located in the mitochondria and expressed in extra-hepatic tissues, especially kidney. The physiologic role of this isoform is poorly understood; it is thought to play a role in nitric oxide and polyamine metabolism. Transcript variants of the type II gene resulting from the use of alternative polyadenylation sites have been described.
Molecular Mass	38.6 kDa
AA Sequence	MSLRGSLSRLLQTRVHSILKKS VHSVAVIGAPFSQGQKRKGVEHGPA AIREAGLMKR LSSLGCHLKDFGDL SFTPVPKDDL YNNLIVNPRSVGLANQELAEVVSRAVSDGYSCV TLGGDHSLAIGTISGHARHCPDLCV VVWDAHADINTPLTTSSGNLHGQPVSFLLREL QDKVPQLPGFSWIKPCISSASIVYIGLRDVPPEHFILKNYDIQYFSMRDIDRLGIQKV MERTFDLLIGKRQRPIHLSFDIDAFDPTLAPATGTPVVGGLTYREGMYIAEEIHNTGLL

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SALDLVEVNPQLATSEEEAKTTANLAVDVIASSFGQTREGGHIVYDQLPTPSSPDES
ENQARVRITRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 ARG2 arginase 2 [Homo sapiens (human)]

Official Symbol ARG2

Synonyms ARG2; arginase, type II; arginase-2, mitochondrial; arginase 2; kidney arginase; type II arginase; nonhepatic arginase; kidney-type arginase; non-hepatic arginase; L-arginine ureahydrolase; L-arginine amidinohydrolase;

Gene ID 384

mRNA Refseq NM_001172

Protein Refseq NP_001163

MIM 107830

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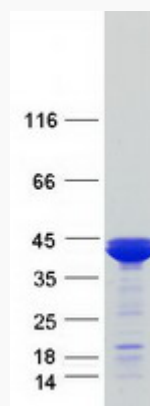
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UniProt ID

P78540

SDS-PAGE

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