

Recombinant Human ARG2, His-tagged

Cat. No. ARG2-26536TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length mature Arg2, amino acids 23-354, fused to a 20 amino acid His-Tag at N-terminus, predicted MWt 38.3 kDa inclusive of tag.
Species	Human
Source	E.coli
ProteinLength	332 amino acids
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.
Conjugation	HIS
Molecular Weight	38.300kDa inclusive of tags
Tissue specificity	Expressed most strongly in kidney and prostate, much less strongly in the brain, skeletal muscle, placenta, lung, mammary gland, macrophage, uterus, testis and gut, but apparently not in the liver, heart and pancreas.

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 10% Glycerol, 0.32% Tris HCl
Storage	Please see Notes section
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MVHSVAVIGA PFSQGQKRKG VEHGPAAIRE AGLMKRLSSL GCHLKDFGDL SFTPVPKDDL YNNLIVNPRS VGLANQELAE VVSRAVSDGY SCVTLGGDHS LAIGTISGHA RHCPDLCVVW VDAHADINTP LTTSSGNLHG QPVSFLLREL QDKVPQLPGF SWIKPCISSA SIVYIGLRDV DPPEHFILKN YDIQYFSMRD IDRLGIQKVM ERTFDLLIGK RQRPIHLSFD IDAFDPTLAP ATFTPVVGGL TYREGMYIAE EIHNTGLLSA LDLVEVNPQL ATSEEEAKTT ANLAVDVIAS SFGQTREGGH IVYDQLPTPS SPDESENQAR VRI.
Sequence Similarities	Belongs to the arginase family.

GENE INFORMATION

Gene Name	ARG2 arginase, type II [Homo sapiens]
Official Symbol	ARG2
Synonyms	ARG2; arginase, type II; arginase-2, mitochondrial;
Gene ID	384
mRNA Refseq	NM_001172

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Protein Refseq	NP_001163
MIM	107830
Uniprot ID	P78540
Chromosome Location	14q24.1
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	arginase activity; hydrolase activity; metal ion binding; nitric-oxide synthase binding;