

Recombinant Human Arginase, Type II, His-tagged

Cat. No. ARG2-2576H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human ARG2, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography. MW =38.3kDa(353aa).

Species Human

Source E.coli

Description Arginase is a manganese-containing enzyme which catalyzes the hydrolysis of arginine to ornithine and urea. It is the final enzyme of the urea cycle. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic cross-reactivity and physiologic function. The type II isoform is located in the mitochondria and expressed in extra-hepatic tissues, especially kidney. It is thought to play a role in nitric oxide and polyamine metabolism.

Sequences Of Amino Acids

MGSSHHHHHH SSGLVPRGSH MVHSVAVIGA PFSQGQKRKG VEHGPA Aire
 AGLMKRLSSL GCHLKDFGDL SFTPVPKDDL YNNLIVNPRS VGLANQELAE
 VVSRAVSDGY SCVTLGGDHS LAIGTISGHA RHCPDLCVW VDAHADINTP
 LTTSSGNLHG QPVSFLLREL QDKVPQLPGF SWIKPCISSA SIVYIGLRDV
 DPPEHFILKN YDIQYFSMRD IDRLGIQKVM ERTFDLLIGK RQRPIHLSFD
 IDAFDPTLAP ATFTPVVGGL TYREGMYIAE EIHN TGLLSA LDLVEVNPQL
 ATSEEEAKTT ANLAVDVIAS SFGQTREGGH IVYDQLPTPS SPDESENQAR VRI

Purity > 95% by SDS – PAGE.

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Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	ARG2 arginase, type II [Homo sapiens]
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; EC 3.5.3.1
Gene ID	384
mRNA Refseq	NM_001172
Protein Refseq	NP_001163
MIM	107830
UniProt ID	P78540
Chromosome Location	14q24.1-q24.3
Pathway	Arginine and proline metabolism; Metabolic pathways
Function	arginase activity; hydrolase activity; metal ion binding; nitric-oxide synthase binding;

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protein binding

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