

Recombinant Human ARG2 protein, T7/His-tagged

Cat. No. ARG2-108H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ARG2 cDNA (23-354 aa, Isoform-1, derived from BC029050) fused with 31 aa (T7/His/TEV cleavage site) at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	23-354 a.a.
Form	1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
AA Sequence	MASMTGGQQMGRGRGHHHHHHENLYFQGGFVHLSVAVIGAPFSQGQKRKGVEHGPA AIREAGLMKRLSSLGCHLKDF GDLSFTPVPKDDLNNLIVNPRSVGLANQELAEV SRAVSDGYSCVTLGGDHS LAIGTISGHARHCPDLCVWVD AHADINTPLTTSSGNL HGQPVSFLLRELQDKVPQLPGFSWIKPCISSASIVYIGLRDVPPEHFILKNYDIQYFS MRDIDRLGIQKVMERTFDLLIGKRQRPIHLSFDIDAFDPTLAPATGTPVVGGLTYREG MYIAEEIHNTGLLSALD LVEVNPQLATSEEEAKTTANLAVDVIASSFGQTREGGHIVY DQLPTPSSPDESENQARVRI
Purity	>90% by SDS-PAGE
Applications	1. May be used for in vitro ARG2 protein mediated arginine depletion in tumor microenvironment regulation study in various cancer cells with "ProFectin" reagent based intracellular delivery of this protein (Note: Mitochondrial transit peptide was

 Tel: 1-631-559-9269 1-516-512-3133

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removed, so this recombinant ARG2 protein will be only located at cytoplasmic one after intracellular protein delivery).2. May be used as specific protein substrate for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.3. May be used for protein-protein interaction mapping.4. As immunogen for specific antibody production.

Storage Keep at -80centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

GENE INFORMATION

Gene Name [ARG2 arginase, type II \[Homo sapiens \]](#)

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](#)

UniProt ID [P78540](#)

Chromosome Location 14q24.1

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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;
Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives,
organism-specific biosystem;

Function

arginase activity; hydrolase activity; metal ion binding; nitric-oxide synthase binding;

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