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	MASMTGGQQMGRGHHHHHHENLYFQGGEFVHSVAVIGAPFSQGQKRKGVEHGP AAIREAGLMKRLSSLGCHLKDF GDLSFTPVPKDDLYNNLIVNPRSVGLANQELAEVV SRAVSDGYSCVTLGGDHSLAIGTISGHARHCPDLCVVWVD AHADINTPLTTSSGNL HGQPVSFLLRELQDKVPQLPGFSWIKPCISSASIVYIGLRDVDPPEHFILKNYDIQYFS MRDIDRLGIQKVMERTFDLLIGKRQRPIHLSFDIDAFDPTLAPATGTPVVGGLTYREG MYIAEEIHNTGLLSALD LVEVNPQLATSEEEAKTTANLAVDVIASSFGQTREGGHIVY DQLPTPSSPDESENQARVRI
Purity	>90% by SDS-PAGE
Applications	1. May be used for in vitro ARG2 protein mediated arginine depletion in tumor microenviroment regulation study in various cancer cells with "ProFectin" reagent based intracellular delivery of this protein (Note: Mitochondrial transit peptide was

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45-1 Ramsey Road, Shirley, NY 11967, USA

	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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