

## Recombinant Human ARG1, His-tagged

Cat. No. ARG1-9810H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ARG1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-236a.a.
<b>Description</b>	Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

### GENE INFORMATION

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Gene Name</b>	ARG1 arginase, liver [ Homo sapiens ]
<b>Official Symbol</b>	ARG1
<b>Synonyms</b>	ARG1; arginase, liver; arginase-1; type I arginase; liver-type arginase;
<b>Gene ID</b>	383
<b>mRNA Refseq</b>	NM_000045
<b>Protein Refseq</b>	NP_000036
<b>MIM</b>	608313
<b>UniProt ID</b>	P05089
<b>Chromosome Location</b>	6q23
<b>Pathway</b>	ATF-2 transcription factor network, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; IL4-mediated signaling events, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
<b>Function</b>	arginase activity; hydrolase activity; manganese ion binding; metal ion binding;

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