

## Recombinant Human Arginase, Liver, His-tagged

**Cat. No.** ARG1-2489H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human ARG1, fused to His-tag at C-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 35.8kDa (330aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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 crossreactivity and physiologic function. The type I isoform functions in the urea cycle, and is located primarily in the cytoplasm of the liver. The type II isoform has been implicated in the regulation of the arginine/ornithine concentrations in the cell. It is located in mitochondria of several tissues in the body, with most abundance in the kidney and prostate.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl.
<b>Purity</b>	> 85% by SDS – PAGE.
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay).
<b>Sequences Of Amino</b>	MSAKSRTIGI IGAPFSKGQP RGGVEEGPTV LRKAGLLEKL KEQECDVKDY GD LP

 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

**Acids**

F ADIPN DSPFQIVKNP RSVGKASEQL AGKVAEVKKN GRISLVLGGD HSL AIGS IS  
 G HARVHPDLGV IWVDAHTDIN TPLTTTSGNL HGQPVSFLK EL KGKIPDVP GF  
 SWVTPCIS AKDIVYIGLR DVDPGEHYIL KTLGIKYFSM TEV DR LGIGK VME ET  
 LSYLL GRKKRPIHLS FDVDGLDPSF TPATGTPVVG GLTYREGLYI TE EITYKTGLL S  
 GLDIMEVNP SLGKTPEEVT RTVNTAVAIT LACFGLAREG NH KP IDYLNPKL EH  
 HHHHH.

**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**

[ARG1 arginase, liver \[ Homo sapiens \]](#)

**Synonyms**

arginase, liver; ARG1; arginase-1; arginase 1; type I arginase; liver-type arginase; EC 3.5.3.1; Type I arginase; Liver-type arginase

**Gene ID**

[383](#)

**mRNA Refseq**

[NM\\_000045](#)

**Protein Refseq**

[NP\\_000036](#)

**MIM**

[608313](#)

**UniProt ID**

[P05089](#)

**Chromosome  
Location**

6q23

**Pathway**

Arginine and proline metabolism; Metabolic pathways; Metabolism of amino acids and

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derivatives

**Function**

arginase activity; hydrolase activity; metal ion binding

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