Recombinant Human Arginase, Liver, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human ARG1, fused to His-tag at C-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques.MW = 35.8kDa (330aa).
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 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl.
Purity	> 85% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino	MSAKSRTIGI IGAPFSKGQP RGGVEEGPTV LRKAGLLEKL KEQECDVKDY GD LP

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Acids	F ADIPN DSPFQIVKNP RSVGKASEQL AGKVAEVKKN GRISLVLGGD HSL AIGS IS G HARVHPDLGV IWVDAHTDIN TPLTTTSGNL HGQPVSFLLK EL KGKIPDVP GF SWVTPCIS AKDIVYIGLR DVDPGEHYIL KTLGIKYFSM TEV DR LGIGK VME ET LSYLL GRKKRPIHLS FDVDGLDPSF TPATGTPVVG GLTYREGLYI TE EIYKTGLL S GLDIMEVNP SLGKTPEEVT RTVNTAVAIT LACFGLAREG NH KP IDYLNP PKL 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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