Recombinant Human ARG1 Protein Data Sheet

Catalog #	hRP-C0062-EF012
Size	100 µg
Protein Name	Human arginase-1
Protein Symbol	ARG1
Original Source	Homo sapiens
Expression System	E.coli
GenBank Accession #	NM 000045.2
Uniprot Accession #	P05089
Description	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 cross reactivity 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.
Application	WB, ELISA, IP, antibody production, protein array
Fusion tag	N-His
Peptide Length	337aa(including fusion tag)
Molecular Weight	36.6kDa(including fusion tag)
pI	7.5
Activity	NA
Storage	Storage buffer: 1XPBS. Store at -80°C and avoid repeated freeze-thaw cycles.
	KDa 54 45 35 28
Reference:	Vascular dysfunction in retinopathy-an emerging role for arginase
	 <u>Structure and function of arginases</u> <u>Arginase I deficiency: severe infantile presentation with hyperammonemia: more common</u>
	than reported
	• Arginase-1: a new immunohistochemical marker of hepatocytes and hepatocellular neoplasms
	• Functionally important role for arginase 1 in the airway hyperresponsiveness of asthma



GeneCopoeia Inc. 9620 Medical Center Drive, Suite 101 Rockville, MD 20850 USA Phone: 301-762-0888 Toll free: 1-866-360-9531 Fax: 301-762-3888 Web: www.genecopoeia.com Inquiry: inquiry@genecopoeia.com Technical Support: support@genecopoeia.com