

Active Recombinant Human ARG2 Protein, His Tagged

Cat. No. ARG2-11258H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ARG2 Protein, His Tag is expressed from E.coli cells. It contains AA Val 23-Ile 354 (Accession # P78540-1). This protein carries a polyhistidine tag at the C-terminus. The protein is designed as a trimer. Predicted N-terminus: Met
Species	Human
Source	E.coli
ProteinLength	23-354 aa
Description	Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exists (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type II isoform encoded by this gene, is located in the mitochondria and expressed in extra-hepatic tissues, especially kidney. The physiologic role of this isoform is poorly understood; it is thought to play a role in nitric oxide and polyamine metabolism. Transcript variants of the type II gene resulting from the use of alternative polyadenylation sites have been described.
Form	Supplied as 0.2 µm filtered solution in 10 mM Tris, 10 mM NaCl, pH8.0 with glycerol as protectant.
Bio-activity	Measured by the production of urea during the hydrolysis of arginine. The specific activity is >150000 pmol/min/µg.

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Molecular Mass	The protein has a calculated MW of 38.1 kDa. The protein migrates as 40-43 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	ARG2 arginase, type II [Homo sapiens (human)]
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

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UniProt ID

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