

Recombinant Human Arginase, Liver

Cat. No. ARG1-594H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human arginase I protein produced in <i>E. coli</i> .
Species	Human
Source	E.coli
Description	Arginase is the fifth and final step in the urea cycle, a series of biophysical reactions in mammals during which the body disposes of harmful ammonia. Specifically, arginase converts L-arginine into L-ornithine and urea.[1] In most mammals, two isozymes of this enzyme exist; the first, Arginase I, functions in the urea cycle, and is located primarily in the cytoplasm of the liver.
Purity	≥90% (SDS-PAGE).
Formulation	Liquid. In 10mM TRIS-HCl, pH 7.5, containing 1mM β-mercaptoethanol, 1mM MnCl ₂ and 50% glycerol.
Specific Activity	±2.0U/g protein. One unit is defined as the amount of enzyme that converts 1μmol of L-arginine to L-ornithine and urea per min. at 37°C, pH 9.5 (R.T. Schminke, et al.; J. Biol. Chem. 238, 1012 (1962)).
Storage	-80°C.
Pathways	Arginine and proline metabolism; Metabolic pathways; Metabolism of amino acids and derivatives

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Full Length Full L.

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](#)

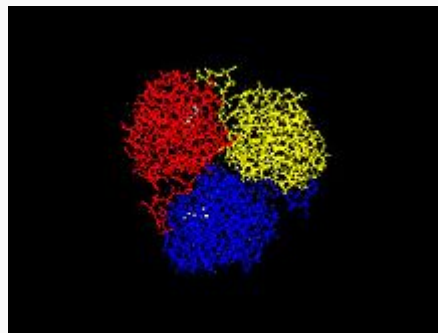
MIM [608313](#)

UniProt ID [P05089](#)

Chromosome Location 6q23

Function arginase activity; hydrolase activity; metal ion binding

ArginasePDB 1CEV



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