

Recombinant Human ARG1 protein, His-tagged

Cat. No. ARG1-3913H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARG1 (Met1-Lys322) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Met1-Lys322
Description	Arginase-1 (ARG1) is also known as Liver-type arginase, Type I arginase, which belongs to the arginase family. Arginase-1/ARG1 is a manganese-containing enzyme. The reaction catalyzed by this enzyme is: arginine + H ₂ O → ornithine + urea. It is the final enzyme of the urea cycle. Defects in Arginase-1/ARG1 are the cause of argininemia (ARGIN).
Predicted N Terminal	Met1
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 35.6 kDa. The protein migrates as 35-38 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

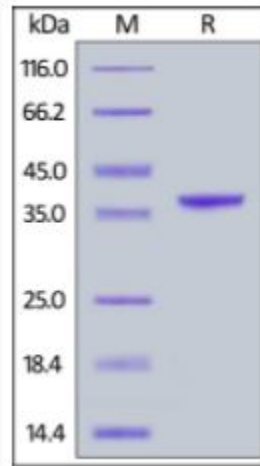
Gene Name	ARG1
Official Symbol	ARG1
Synonyms	ARG1; arginase, liver; arginase-1; type I arginase; liver-type arginase
Gene ID	383
mRNA Refseq	NM_000045
Protein Refseq	NP_000036
MIM	608313
UniProt ID	P05089

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**SDS-PAGE of ARG1-
3913H**



Human Arginase 1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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