



## Synonym

ARG1, Arginase-1

## Source

Human Arginase 1, His Tag(AR1-H5228) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Lys 322 (Accession # [NP\\_000036](#)).

Predicted N-terminus: Met 1

## Molecular Characterization

ARG1(Met 1 - Lys 322)  
NP\_000036 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 35.8 kDa. The protein migrates as 35-38 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

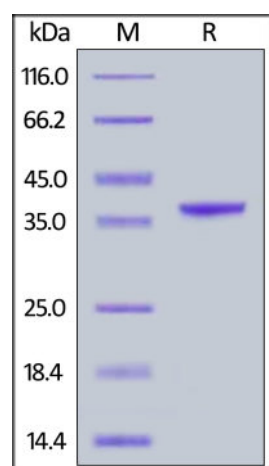
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



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

## Background

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<sub>2</sub>O → ornithine + urea. It is the final enzyme of the urea cycle. Defects in Arginase-1 / ARG1 are the cause of argininemia (ARGIN).

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