

# Human ARG1/Arginase 1 (His Tag) recombinant protein



Catalog Number: 503979

## General Information

### Gene Name Synonym

Liver-type arginase; Type I arginase

### Protein Construction

A DNA sequence encoding the human ARG1 isoform 1 (P05089-1) (Met 1-Lys 322) was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by the production of urea during the hydrolysis of arginine.

The specific activity is >35,000 pmoles/min/μg.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met 1

### Molecular Mass

The secreted recombinant human ARG1 consists of 333 amino acids and has a calculated molecular mass of 36.2 kDa. The apparent molecular mass of the protein is approximately 40 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 20mM Tris, 150mM NaCl, 20% Glycerol, 1mM DTT, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

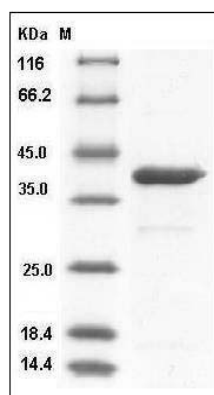
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human ARG1 / Arginase 1 Protein (His Tag) SDS-PAGE