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# **Recombinant Human Arginase-1 Protein (His Tag)**

Catalog No. PKSH500021

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

**Synonyms** ARG1,Al,Arginase 1,Arginase liver,

Species Human
Expression Host E.coli

Sequence Met1-Lys322

AccessionP05089Calculated Molecular Weight36.9 kDaObserved molecular weight38-40 kDaTagN-His

**Bioactivity** Testing in progress

## **Properties**

**Purity** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin** Please contact us for more information.

**Storage** Store at  $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

**Formulation** Supplied as sterile solution of 25mM Tris-HCl, 150mM KCl, 1mM DTT, 20%

glycerol,pH 8.0.

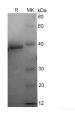
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the

**Reconstitution** Not Applicable

#### Data



> 90 % as determined by reducing SDS-PAGE.

## **Background**

Arginase 1, also known as liver arginase, is a binuclear manganese metalloenzyme. It is a key enzyme of the urea cycle that catalyses the conversion of L-arginine into L-ornithine and urea, the final cytosolic reaction of urea formation in the mammalian liver. Arginase 1 is abundantly expressed in liver, but it is also expressed in cells and tissues that lack a

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Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: <u>www.elabscience.com</u> Email: <u>techsupport@elabscience.com</u>

## **Elabscience Bionovation Inc.**



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complete urea cycle, including lung. Arginase is a critical regulator of nitric oxide synthesis and vascular function. It is implicated in a variety of human diseases including vascular disease, pulmonary disease, infectious disease, immune cell function and cancer. In humans, hereditary defects in arginase result in an accumulation of arginine in the blood known as hyperarginemia. Arginase deficiency can also result in the accumulation of nitrogen in the form of ammonia, which results in hyperammonemia.

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