Recombinant Human Arginase-1/ARG1 Protein (E.coli, His Tag)



Catalog Number: PKSH032091

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

Description

Synonyms Arginase-1;Liver-type arginase;Type I arginase;ARG1

SpeciesHumanExpression HostE.coli

SequenceMet 1-lys322AccessionP05089Calculated Molecular Weight35.8 kDaObserved molecular weight40 kDaTagC-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

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

Storage Storage Store at < -20°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

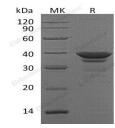
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 20%

Glycerol, 1mM DTT, pH 7.4.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

ARG1 is a member of the ureohydrolase family of enzymes. ARG1 can catalyze the hydrolysis of arginine to ornithine and urea. In the urea cycle, ARG1 catalyzes the fifth and final step, a series of biochemical reactions in mammals during which the body disposes of harmful ammonia. ARG1 is a cytosolic enzyme and expressed widely in the liver as part of the urea cycle. Inherited deficiency of this ARG1 causes argininemia, which is an autosomal recessive disorder characterized by hyperammonemia.

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