Recombinant Protein Technical Manual

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

RPES2985

Product Data:

Product SKU: RPES2985

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P05089

Protein Information:

Molecular Mass:	35.8 kDa
AP Molecular Mass:	40 kDa
Tag:	C-6His
Bio-activity:	Measured by the production of urea during the hydrolysis of arginine. The specific activity is 6136.25 pmol/min/µg.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg as determined by the LAL method.
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,150mM NaCl,20% Glycerol,1mM DTT, pH 7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Arginase; Liver-type arginase; Type I arginase; ARG1

Immunogen Information:

Sequence: Met 1-lys322

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.