



[Go to Product page](#)

Datasheet for ABIN7317033

Liver Arginase Protein (MYC tag,His tag)

1 Image

Overview

Quantity:	50 µg
Target:	Liver Arginase (ARG1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Liver Arginase protein is labelled with MYC tag,His tag.

Product Details

Purpose:	Recombinant Human Arginase-1/ARG1 Protein (His & MYC Tag)
Sequence:	Met 1-Lys 322
Characteristics:	A DNA sequence encoding the human ARG1 (NP_000036.2) (Met1-Lys322) was expressed with a polyhistidine tag at the N-terminus and a myc tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	Liver Arginase (ARG1)
Alternative Name:	Arginase-1 (ARG1 Products)
Background:	Background: Arginase is the focal enzyme of the urea cycle hydrolysing L-arginine to urea and L-ornithine. Emerging studies have identified arginase in the vasculature and have implicated this enzyme in the regulation of nitric oxide (NO) synthesis and the development of vascular

Target Details

disease. Arginase also redirects the metabolism of L-arginine to L-ornithine and the formation of polyamines and L-proline, which are essential for smooth muscle cell growth and collagen synthesis. Arginase is encoded by two recently discovered genes (Arginase I and Arginase II). In most mammals, Arginase 1 (ARG1) also known as Arginase, liver, which functions in the urea cycle, and is located primarily in the cytoplasm of the liver. The second isozyme, Arginase II, has been implicated in the regulation of the arginine/ornithine concentrations in the cell. It is located in mitochondria of several tissues in the body, with most abundance in the kidney and prostate. It may be found at lower levels in macrophages, lactating mammary glands, and brain.

Synonym: Arginase-1, Liver-type arginase, Type I arginase, ARG1

Molecular Weight: 36.7 kDa

NCBI Accession: [NP_000036](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Restrictions: For Research Use only

Handling

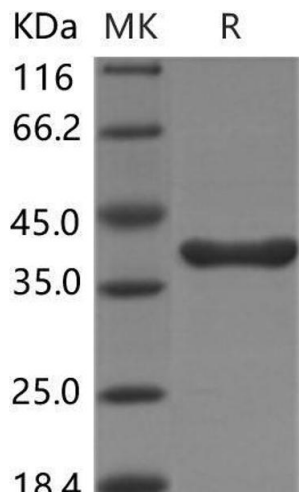
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 20 % glycerol, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.