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Datasheet for ABIN7194301
Liver Arginase Protein (His tag)

Overview

Quantity:	100 µg
Target:	Liver Arginase (ARG1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Liver Arginase protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Arginase-1/ARG1 Protein (HEK293 Cells, His Tag)(Active)
Sequence:	Met 1-Lys 322
Characteristics:	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.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the production of urea during the hydrolysis of arginine. The specific activity is >35,000 pmoles/min/µg.

Target Details

Target:	Liver Arginase (ARG1)
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Target Details

Alternative Name: Arginase-1 ([ARG1 Products](#))

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 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: 36.2 kDa

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, 150 mM NaCl, 20 % Glycerol, 1 mM DTT, 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.