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Datasheet for ABIN1097032

**ARG2 Protein (AA 1-354) (His tag)**

## Overview

Quantity:	50 µg
Target:	ARG2
Protein Characteristics:	AA 1-354
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARG2 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Kidney-Type Arginase/ARG2 (N-6His)
Sequence:	MHSVAVIGAP FSQGQKRKGV EHGPAAREA GLMKRLSSLG CHLKDFGDLS FTPVPKDDL YNNLIVNPRSV GLANQELAEV VSRVSDGYS CVTLGGDHSL AIGTISGHAR HCPDLCVWW VDAHADINTPL TTSSGNLHGQ PVSFLLRELQ DKVPQLPGFS WIKPCISSAS IVYIGLRD VDPPHEFILKNY DIQYFSMRDI DRLGIQKVME RTFDLLIGKR QRPIHLSFDI DAFDPTL APATGTPVVGGLT YREGMYIAEE IHNTGLLSAL DLVEVNPQLA TSEEEAKTTA NLA VDVIASSFGQTREGGHH HHHH
Characteristics:	Recombinant Human Kidney-Type Arginase/ARG2 (N-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	ARG2
Alternative Name:	Kidney-Type Arginase ( <a href="#">ARG2 Products</a> )
Background:	<p>Recombinant Human Kidney-Type Arginase/ARG2 is produced by our E. coli expression system. The target protein is expressed with sequence (Val23-Ile354) of Human ARG2 fused with a 6His tag at the N-terminus.</p> <p>Kidney-Type Arginase (ARG2) is a member of the arginase family. Arginase is a manganese-containing enzyme which catalyzes the hydrolysis of arginine to ornithine and urea. ARG2 is highly expressed in kidney and prostate, not founded in the liver, heart and pancreas. ARG2 has been implicated in the regulation of the arginine/ornithine concentrations in the cell. ARG2 may take part in the regulation of extra-urea cycle arginine metabolism and in down-regulation of nitric oxide synthesis. The extrahepatic arginase functions to regulate L-arginine bioavailability to NO synthase.</p>
Molecular Weight:	34.2 kDa
UniProt:	<a href="#">P78540</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 10 mM TrisHCl, 10 mM NaCl, 1 mM β-mercaptoethanol, pH 7.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at &lt; -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months