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Datasheet for ABIN6239897

## ARG Protein (AA 1-323) (His tag)

### 1 Image

#### Overview

Quantity:	50 µg
Target:	ARG
Protein Characteristics:	AA 1-323
Origin:	Rat
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This ARG protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

#### Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 97 %
Biological Activity Comment:	Arginase (Arg) is an enzyme that catalyzes the degradation of arginine to produce urea and ornithine, which is crucial in the urea cycle. In most mammals, two isozymes of this enzyme exist; the first, Arginase I, 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. Besides, Estrogen Receptor Alpha (ERα) has been identified as an interactor of, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat Arginase( Arg) and recombinant rat ERα. Briefly, Arg were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to ERα-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-Arg pAb, then aspirated and washed 3 times. After incubation with

## Product Details

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HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of Arg and ERa was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of Arg with ERa.

## Target Details

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Target:	ARG
Abstract:	<a href="#">ARG Products</a>
Background:	Alternative Names: ARG1, Arginase I, Liver Arginase
Molecular Weight:	37kDa
UniProt:	<a href="#">P07824</a>

## Application Details

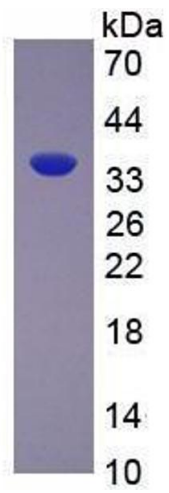
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Application Notes:	Isoelectric Point: 6.7
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.



**Image 1.**