Datasheet for ABIN7596258

Liver Arginase Protein (AA 1-322) (His tag)

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Overview

Quantity:	500 µg
Target:	Liver Arginase (ARG1)
Protein Characteristics:	AA 1-322
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Liver Arginase protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	MSAKSRTIGI IGAPFSKGQP RGGVEEGPTV LRKAGLLEKL KEQECDVKDY GDLPFADIPN DSPFQIVKNP RSVGKASEQL AGKVAEVKKN GRISLVLGGD HSLAIGSISG HARVHPDLGV IWVDAHTDIN TPLTTTSGNL HGQPVSFLLK ELKGKIPDVP GFSWVTPCIS AKDIVYIGLR DVDPGEHYIL KTLGIKYFSM TEVDRLGIGK VMEETLSYLL GRKKRPIHLS FDVDGLDPSF TPATGTPVVG GLTYREGLYI TEEIYKTGLL SGLDIMEVNP SLGKTPEEVT RTVNTAVAIT LACFGLAREG NHKPIDYLNP PK
Purity:	> 85% by SDS-PAGE
Biological Activity Comment:	Specific activity is > 150,000pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0pmole of arginine to urea per minute at pH 10.5 at 37C.

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Target Details

Target:	Liver Arginase (ARG1)
Alternative Name:	Arginase 1 (ARG1 Products)
Background:	Arginase is a manganese-containing enzyme which catalyzes the hydrolysis of arginine to ornithine and urea. It is the final enzyme of the urea cycle. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform functions in the urea cycle, and is located primarily in the cytoplasm of the liver. The type II isoform 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. Recombinant human ARG1, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Molecular Weight:	35.8 kDa (330aa) confirmed by MALDI-TOF
NCBI Accession:	NP_000036
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

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