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Liver Arginase Protein (active Mutant)



Overview

Quantity:	10 ug
Quantity:	10 μg
Target:	Liver Arginase (ARG1)
Protein Characteristics:	active Mutant
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Product Details	
Purpose:	Arginase I (human) (rec.) (highly active)
Specificity:	Full length human arginase I.
Characteristics:	Protein. Full length human arginase I. Source: E. coli. Liquid. In 10 mM TRIS-HCI, pH 7.5, containing 1 mM beta-mercaptoethanol, 1 mM MnCl2 and 50 % glycerol. Purity: >90 % (SDS-PAGE). Arginase catalyzes the hydrolysis of arginine to ornithine and urea. 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 is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Arginase is involved in the nitric oxide (NO) pathway and immune cell arginine metabolism. It is fundamentally involved in cancer, inflammation, infections, fibrotic diseases, neurobiology, pregnancy and immune regulation in general.
Purity:	>90 % (SDS-PAGE)

Product Details

Biological Activity Comment:

 1.6 ± 0.2 U/µg protein. One unit is defined as the amount of enzyme that converts 1µmol of L-arginine to L-ornithine and urea per min. at 37°C, pH 9.5 (according to protocol from R.T. Schimke, et al.; J. Biol. Chem. 238, 1012 (1963)).

Target Details

Target:	Liver Arginase (ARG1)
Alternative Name:	Arginase I (ARG1 Products)
Background:	Alternate Names/Synonyms: EC 3.5.3.1, ARG1, Arginase 1, Type I Arginase, Liver-type Arginase, L-Arginase
	Product Description: Arginase catalyzes the hydrolysis of arginine to ornithine and urea. 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 is a cytosolic enzyme and expressed predominantly in the liver as a component
	of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal
	recessive disorder characterized by hyperammonemia. Arginase is involved in the nitric oxide
	(NO) pathway and immune cell arginine metabolism. It is fundamentally involved in cancer,
	inflammation, infections, fibrotic diseases, neurobiology, pregnancy and immune regulation in
	general.
UniProt:	P05089
Pathways:	Cellular Response to Molecule of Bacterial Origin
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. In 10 mM TRIS-HCl, pH 7.5, containing 1 mM beta-mercaptoethanol, 1 mM MnCl2 and
	50 % glycerol.
Handling Advice:	Avoid freeze/thaw cycles.
Storage:	-20 °C,-80 °C

Handling

Storage Comment: Short Term Storage: -20°C

Long Term Storage: -80°C

Use & Stability: Stable for at least 1 year after receipt when stored at -80°C.