

Bioactive

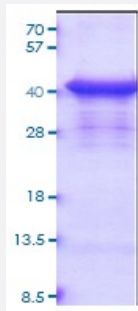
Full-Length

ARG1 (Human) Recombinant Protein

Catalog # P6839

Size 20 ug

Applications



SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Specification

Product Description	Human Arginase 1/ARG1 protein (NP_000036, 1 a.a.-322 a.a.) full length recombinant protein with H is tag expressed in <i>Escherichia coli</i> .
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	35.8
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 85% by SDS-PAGE
Activity	Specific activity is > 150,000 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of arginine to urea per minute at pH 10.5 at 37°C.
Quality Control Testing	SDS-PAGE under reducing condition and visualized by coomassie blue stain. SDS-PAGE under reducing condition and visualized by coomassie blue stain.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM Tris-HCl, 100 mM NaCl, pH 8.0 (20% glycerol, 2 mM DTT)

Storage Instruction

Store at -20°C. For long term storage store at -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — ARG1

Entrez GeneID [383](#)

Protein Accession# [P05089](#)

Gene Name ARG1

Gene Alias -

Gene Description arginase, liver

Omim ID [207800 608313](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 encoded by this gene, 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. [provided by RefSeq]

Other Designations A-I|OTTHUMP00000017209|arginase, type I

Pathway

- [Arginine and proline metabolism](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Metabolic pathways](#)

Disease

- [Asthma](#)
- [Atherosclerosis](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Inflammation](#)
- [Lung Neoplasms](#)
- [Myocardial Infarction](#)
- [Precancerous Conditions](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Stomach Neoplasms](#)