

Recombinant human Liver Arginase protein ab168047

Description

Product name	Recombinant human Liver Arginase protein
Biological activity	Specific Activity: ~2.0U/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
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P05089</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MSAKSRTIGIIGAPFSKGQPRGGVEEGPTVLRKAGLLEKLK EQECDVKDY GDLPFADIPNDSPFQVKNPRSVGKASEQLAGKVAEVKK NGRISLVLGGD HSLAIGSISGHARVHPDLGVWVDAHTDINTPLTTTSGNLHG QPVSFLLK ELKGKIPDVPGFWSWTPCISAKDIVYGLRDVDPGEHYLKT LGIKYFSM TEVDRLGIGKVMEEETLSYLLGRKKRPIHLSFDVDGLDPSFT PATGTPVVG GLTYREGLYTEEIMKTGLLSGLDIMEVNPSLGKTPEEVTRT VNTAVAIT LACFGLAREGNHKPIDYLNPPK
Predicted molecular weight	35 kDa
Amino acids	1 to 322

Specifications

Our **Abpromise guarantee** covers the use of **ab168047** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
	SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Constituents: 0.008% 2-Mercaptoethanol, 0.16% Tris HCl, 50% Glycerol (glycerin, glycerine), 0.013% Manganese chloride
This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Pathway Nitrogen metabolism; urea cycle; L-ornithine and urea from L-arginine: step 1/1.
Involvement in disease Defects in ARG1 are the cause of argininemia (ARGIN) [MIM:207800]; also known as hyperargininemia. Argininemia is a rare autosomal recessive disorder of the urea cycle. Arginine is elevated in the blood and cerebrospinal fluid, and periodic hyperammonemia occurs. Clinical manifestations include developmental delay, seizures, mental retardation, hypotonia, ataxia, progressive spastic quadriplegia.
Sequence similarities Belongs to the arginase family.
Cellular localization Cytoplasm.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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