abcam

Product datasheet

# Recombinant human Liver Arginase protein (Active) ab271366

2 Images

## Description

| | |
|---|---|
| **Product name** | Recombinant human Liver Arginase protein (Active) |
| **Biological activity** | Recombinant Human Liver Arginase activity assay was performed by UV absorption using thioarginine as substrate. Reactions of various ab271366 concentrations (0-100 nM final concentration) were conducted for 30 min at room temperature. Absorption signals were measured using a Tecan Infinite M1000 plate reader. |
| **Purity** | >= 90 % SDS-PAGE. |
| **Expression system** | HEK 293 cells |
| **Accession** | P05089 |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **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 |
| **Predicted molecular weight** | 36 kDa including tags |
| **Amino acids** | 1 to 322 |
| **Tags** | His tag C-Terminus |

## Specifications

Our **Abpromise guarantee** covers the use of **ab271366** in the following tested applications.

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

| | |
|---|---|
| **Applications** | SDS-PAGE<br>Functional Studies |
| **Form** | Liquid |

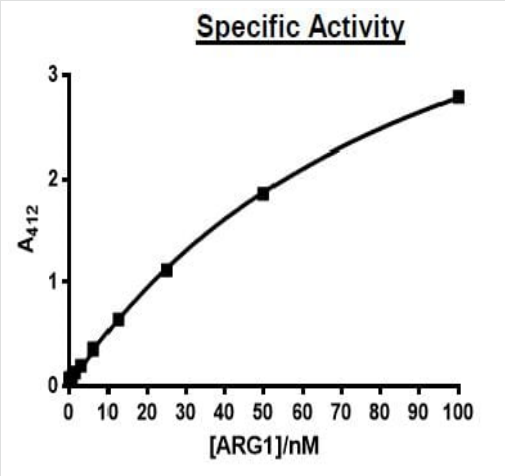
## Preparation and Storage

| | |
|---|---|
| **Stability and Storage** | Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.<br>pH: 7.40<br>Constituents: 0.13% Sodium phosphate, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine)<br>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. |

## Images




Functional Studies - Recombinant human Liver Arginase protein (Active) (ab271366)

Recombinant Human Liver Arginase activity assay was performed by UV absorption using thioarginine as substrate. Reactions of various ab271366 concentrations (0-100 nM final concentration) were conducted for 30 min at room temperature.


SDS-PAGE - Recombinant human Liver Arginase protein (Active) (ab271366)

SDS-PAGE analysis of 3 µg ab271366.



## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors