abcam

Product datasheet

Recombinant Human Liver Arginase protein ab185382

Overview

Product name	Recombinant Human Liver Arginase protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P05089
Species	Human
Sequence	MSAKSRTIGIIGAPFSKGQPRGGVEEGPTVLRKAGLLEKLKEQECDVKDY GDLPFADIPNDSPFQIVKNPRSVGKASEQLAGKVAEVKKNGRISLVLGGD HSLAIGSISGHARVHPDLGVIWVDAHTDIN TPLTTTSGNLHGQPVSFLLKELKGKIPDVPGFSWVTPCISAKDIVYIGLR DVDPGEHYILKTLGI KYFSMTEVDRLGIGKVMEETLSYLLGRKKRPIHLSFDVDGLDPSFTPATG TPVVGGLTYREGLYI TEEIYKTGLLSGLDIMEVNPSLGKTPEEVTRTVNTAVAITLACFGLAREG NHKPIDYLNPPKLEH HHHHH
Molecular weight	36 kDa including tags
Amino acids	1 to 322
Tags	His tag C-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab185382** 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 HPLC
Endotoxin level	< 1.000 Eu/µg
Purity	>95% by SDS-PAGE .

Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 20% Glycerol, 0.32% Tris HCl, 0.88% Sodium chloride, 0.02% DTT 0.2 µM filtered

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.

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