

Recombinant Human Argininosuccinate Lyase protein ab113605

1 Image

Description

Product name	Recombinant Human Argininosuccinate Lyase protein
Purity	> 95 % SDS-PAGE. ab113605 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P04424</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MGSSHHHHHHSSGLVPRGSHMASESGKLWGGRFVGA VDPIMEKFNASIAY DRHLWEVDVQGSKAYSRGLEKAGLLTKAEMDQILHGLDK VAEEWAQGTFK LNSNDEDIHTANERRLKELIGATAGKLHTGRSRNDQVVTDL RLWMRQTCS TLSGLLWELIRTMDRAEAERDVLFPGYTHLQRAQPIRWS HWILSHAVAL TRDSERLLEVRKRINVLP LGSGA IAGNPLGVDRELLRAELN FGAITLNSM DATSERDFVAEFLFWASLCMTHLSRMAEDLILYCTKEFSF VQLSDAYSTG SSLMPQKKNPDSLELIRSKAGR VFGR CAGLLMTLKGLPST YNKDLQEDKE AVFEVSDTMSAVLQVATGVISTLQIHQENMGQALSPDMLA TDLAYYLVRK GMPFRQAHEASGKAVFMAETKGVALNQLSLQELQTISPL FSGDVICVWDY GHSVEQYGALGGTARSSVDWQIRQVRALLQAQQA</p>
Predicted molecular weight	54 kDa including tags
Amino acids	1 to 464
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab113605** 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

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 8.00

Constituents: 0.04% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

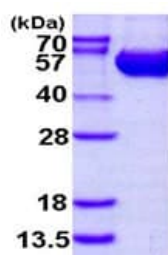
Pathway Amino-acid biosynthesis; L-arginine biosynthesis; L-arginine from L-ornithine and carbamoyl phosphate: step 3/3.
Nitrogen metabolism; urea cycle; L-arginine and fumarate from (N(omega)-L-arginino)succinate: step 1/1.

Involvement in disease Defects in *ASL* are the cause of arginosuccinicaciduria (*ARGINSA*) [MIM:207900]. Arginosuccinicaciduria is an autosomal recessive disorder of the urea cycle. The disease is characterized by mental and physical retardation, liver enlargement, skin lesions, dry and brittle hair showing trichorrhexis nodosa microscopically and fluorescing red, convulsions, and episodic unconsciousness.

Sequence similarities Belongs to the lyase 1 family. Argininosuccinate lyase subfamily.

Post-translational modifications Acetylation modifies enzyme activity in response to alterations of extracellular nutrient availability. Acetylation increased with trichostin A (TSA) or with nicotinamide (NAM). Glucose increases acetylation by about a factor of 3 with decreasing enzyme activity. Acetylation on Lys-288 is decreased on the addition of extra amino acids resulting in activation of enzyme activity.

Images



15% SDS-PAGE showing ab113605 (3 µg) at approximately 53.8 kDa.

SDS-PAGE - Recombinant Human

Argininosuccinate Lyase protein (ab113605)

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

- 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