

Human Argininosuccinase / ASL Protein (His & GST Tag)

Catalog Number: 14080-H20B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

ASL

Protein Construction:

A DNA sequence encoding the human ASL(P04424) (Met1-Ala464) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human ASL/GST chimera consists of 701 amino acids and has a calculated molecular mass of 79.5 kDa. The recombinant protein migrates approximately 68 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, 3mM DTT, pH 8.0, 10% glycerol.

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

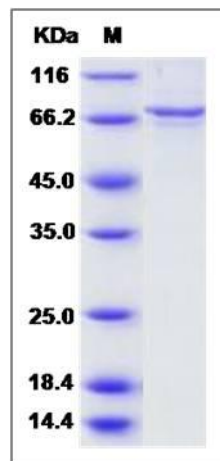
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Argininosuccinase is a member of the lyase 1 family. Both of argininosuccinase and a nontranscribed pseudogene are located on the long arm of chromosome 22. Argininosuccinase forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate. This is an essential step in the liver in detoxifying ammonia via the urea cycle. Mutations in argininosuccinase gene result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency.

References

1. Kim W. et al., 2011, Mol Cell. 44 (2): 325-40.
2. Engel K. et al., 2012, J Inher Metab Dis. 35 (1): 133-40.
3. Chen YH. et al., 2011, Biochimie. 93 (2): 314-20.

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