

Human GOT1 / Aspartate aminotransferase Protein (His Tag)

Catalog Number: 14196-H07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

GOT1

Protein Construction:

A DNA sequence encoding the mature form of human GOT1 (P17174) (Met1-Gln413) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

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

Predicted N terminal: His

Molecular Mass:

The recombinant human GOT1 consists of 428 amino acids and predicts a molecular mass of 48.1 KDa. It migrates as an approximately 36-45 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

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.

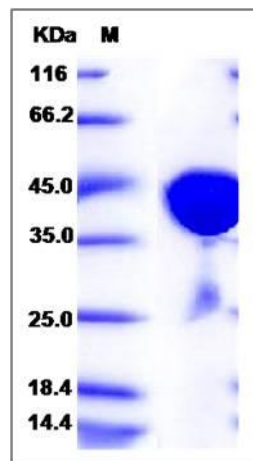
Usage Guide

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

Aspartate aminotransferase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, aspartate aminotransferase and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. There is a rare in-frame deletion in aspartate aminotransferase gene, which inactivates cytosolic aspartate aminotransferase(cAST) enzyme in the Old Order Amish. This may help to understand structure and function of the enzyme and would be useful for predicting serum aspartate AST levels.

References

1. Shen H. et al., 2011, J Hum Genet. 56 (11): 801-5.
2. Doonan S. et al., 1985, Int J Biochem. 16 (12): 1193-9.
3. Panteghini M. 1990, Clin Biochem. 23 (4): 311-9.
4. Bousquet-Lemerrier B. et al., 1990, Biochemistry. 29 (22): 5293-9.