

Human ACYP2 / Acylphosphatase-2 Protein (GST Tag)

Catalog Number: 10437-H09E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

ACYM, ACYP

Protein Construction:

A DNA sequence encoding the human ACYP2 (P14621) (Ser 2-Tyr 99) was fused with the GST tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 94 % 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: Met

Molecular Mass:

The recombinant human ACYP2/GST chimera consists of 332 amino acids and has a predicted molecular mass of 38.2 kDa. It migrates as an approximately 35 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 0.15M NaCl, 2mM GSH, pH 7.5

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.

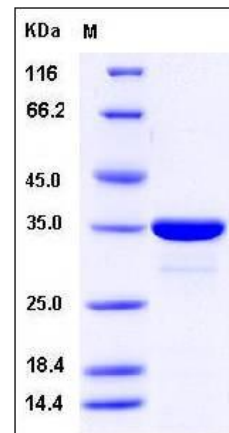
Usage Guide

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

Acylphosphatase-2, also known as Acylphosphatase, muscle type isozyme, Acylphosphate phosphohydrolase 2 and ACYP2 is protein which belongs to the acylphosphatase family. Acylphosphatase-2 / ACYP2 contains one acylphosphatase-like domain. Acylphosphatase can hydrolyze the phosphoenzyme intermediate of different membrane pumps, particularly the Ca²⁺/Mg²⁺-ATPase from sarcoplasmic reticulum of skeletal muscle. Two isoenzymes have been isolated, called muscle acylphosphatase and erythrocyte acylphosphatase on the basis of their tissue localization.

References

1. Degl'Innocenti, D. et al., 2004, IUBMB Life. 56 (1):29-33.
2. Gribenko A.V., et al., 2009, Proc. Natl. Acad. Sci. USA. 106:2601-2606.
3. Yeung R.C., et al., 2006, Acta Crystallogr. F 62:80-82.
4. Burkard T.R., et al., 2011, BMC Syst. Biol. 5:17-17.

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