Data Sheet (Cat.No.TMPY-02298)

TargetMol

ACYP2 Protein, Human, Recombinant (GST)

General Information

Synonyms: ACYM;acylphosphatase 2, muscle type;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. Predicted N terminal: Met

Species: Human

Expression Host: E. coli

Accession: P14621

Molecular Weight: 38.2 kDa (predicted); 35 kDa (reducing conditions)

QC Testing

Biological Activity: Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 94 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

Formulation: Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 0.15M NaCl, 2 mM GSH, pH 7.5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Recent genome-wide association studies have identified genetic variants in ACYP2 and WFS1 that are associated with cisplatin-induced ototoxicity. We sought to explore the role of these genetic susceptibility factors to cisplatin-induced ototoxicity in patients with testicular cancer. Telomere length, as a marker of biological aging, has been reported to influence the risk of several age-related diseases, including ischemic stroke. Recent studies have identified the genetic variant within ACYP2 and TSPYL6 associated with shorter telomere length. The research

showed that that the G allele of rs11896604 and the A allele of rs12615793 within ACYP2 gene, rs12615793-smoking interaction, and rs11896604-alcohol drinking interaction were all associated with increased IS risk.

Reference

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Yeung R.C., et al., 2006, Acta Crystallogr. F 62:80-82.
Burkard T.R., et al., 2011, BMC Syst. Biol. 5:17-17.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481