Recombinant Mouse Atp1b1 protein (rFc Tag)

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Catalog Number: Eg3007

Basic Information

Species:	Purity:	Tag:
Mouse	>90 %, SDS-PAGE	rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/μg protein, LAL method

Source:
HEK293-derived Mouse Atp1b1 protein Glu63-Ser304 (Accession# P14094) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
11931

Accession:
P14094

Predicted Molecular Mass:
53.7 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

ATP1B1 is one of beta subunits of the Na+/K+ ATPase and responsible for formation and structural integrity of the Na+/K+ ATPase, which is a plasma membrane pump consisting of alpha, beta, and gamma subunits. ATP1B1 plays an important role in maintaining the normal gradients of Na+ and K+ across plasma membrane. ATP1B1 also plays an active role during the pathogenesis of leukemia and overexpression of ATP1B1 may also predict a poor prognosis in CN AML patients. ATP1B1 is a useful biomarker for the clinical diagnosis and prognosis of DLBCL

References

1. Xiao, Bing et al. Clinica chimica acta; international journal of clinical chemistry vol. 407,1-2 (2009): 47-50.
2. Shi, Jin-long et al. Oncotarget vol. 7,3 (2016): 2585-95.
3. Zhang, Shuo et al. Annals of translational medicine vol. 10,20 (2022): 1136.

Synonyms

ATP1B 1, Atp4b, Beta 1 subunit of Na(+) K(+) ATPase, Na, K-ATPase β 1, Na+/K+ ATPase beta 1 subunit