

For Research Use Only

Recombinant Mouse ATP1B1 protein (mFc Tag)



Catalog Number: Eg3915

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse ATP1B1 protein Glu63-Ser304 (Accession# P14094) with a mouse IgG Fc tag at the N-terminus.

GeneID:

11931

Accession:

P14094

Predicted Molecular Mass:

55.8 kDa

SDS-PAGE:

58-70 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in 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°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C 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. The Na⁺/K⁺ ATPase is a plasma membrane pump consisting of alpha, beta, and gamma subunits. At least four of Na⁺/K⁺-ATPase beta subunits (β1, β2, β3, β4) have been identified in mammalian cells; the β1-subunit (ATP1B1) is the most ubiquitous. The Na⁺/K⁺ ATPase β subunits have multiple N-glycosylation sites. The predicted MW of ATP1B1 is 35 kDa, while it migrates around 40-52 kDa due to the variable glycosylation.

References

1. Cutler CP, et al. (2000). Am J Physiol Regul Integr Comp Physiol. 279(1): R222-9.
2. Liu CG, et al. (2007). Clin Exp Pharmacol Physiol. 34(10):998-1004.
3. Wang J, et al. (2018). Exp Neurol. 302:214-229.

Synonyms

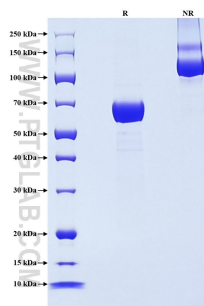
Atp4b, Sodium/potassium-dependent ATPase subunit beta-1, Sodium/potassium-transporting ATPase subunit beta-1

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse ATP1B1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.