

ATP1B1 Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702219
Synonyms:	Sodium/potassium-transporting ATPase subunit beta-1; Sodium/potassium-dependent ATPase subunit beta-1
Species:	Mouse
Source:	E. coli Cell-free
Accession:	P14094 (M1-S304)
Gene ID:	11931
Molecular Weight:	Monomer: 35 kDa Dimer: 70 kDa

PROPERTIES

AA Sequence	<pre> M A R G K A K E E G S W K K F I W N S E K K E F L G R T G G S W F K I L L F Y V I F Y G C L A G I F I G T I Q V M L L T I S E L K P T Y Q D R V A P P G L T Q I P Q I Q K T E I S F R P N D P K S Y E A Y V L N I I R F L E K Y K D S A Q K D D M I F E D C G N V P S E P K E R G D I N H E R G E R K V C R F K L D W L G N C S G L N D D S Y G Y R E G K P C I I I K L N R V L G F K P K P P K N E S L E T Y P L M M K Y N P N V L P V Q C T G K R D E D K D K V G N I E Y F G M G G Y Y G F P L Q Y Y P Y Y G K L L Q P K Y L Q P L L A V Q F T N L T V D T E I R V E C K A Y G E N I G Y S E K D R F Q G R F D V K I E I K S </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of 20 mM Tris-HCl, 0.15 M NaCl, 0.05% Brij-78, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ATP1B1 Protein serves as the non-catalytic component of the active enzyme responsible for catalyzing the hydrolysis of ATP, coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. As a crucial subunit, ATP1B1, in conjunction with the alpha subunit, forms heterodimers that regulate the quantity of sodium pumps transported to the plasma
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membrane. Beyond its role in ion transport, ATP1B1 is implicated in essential cellular processes, including cell adhesion and the establishment of epithelial cell polarity. This multifaceted functionality underscores the significance of ATP1B1 in cellular homeostasis, ion balance, and the maintenance of structural integrity within tissues.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA