
Product Data Sheet

Product Name: ATP1B1 Human
 Cat. No.: GP22800
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Sodium/potassium-transporting ATPase subunit beta-1; ATPase; Na ⁺ /K ⁺ transporting; beta 1 polypeptide; ATP1B; ATPBS; Sodium/potassium-dependent ATPase subunit beta-1; ATP1B1; ATPaseTransporting Beta 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEFKPTYQ DRVAPPGLTQ IPQIQKTEIS FRPNDPKSYE AYVLNIVRFL EKYKDSAQRD DMIFEDCGDV PSEPKERGDF NHERGERKVC RFKLEWLGNC SGLNDETYGY KEGKPCIIK LNRVLGFKPK PPKNESLETY PVMKYNPVNL PVQCTGKRDE DKDKVGNVEY FGLGNSPGFP LQYYPYGGKL LQPKYLQPLL AVQFTNLTMD TEIRIECKAY GENIGYSEKD RFQGRFDVKI EVKS.		
Formulation	The ATP1B1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

ATPaseTransporting Beta 1 (ATP1B1) is a part of the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, and the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an essential membrane protein accountable for establishing and maintaining the electrochemical gradients of Na and K ions over the plasma membrane. These gradients are vital for osmoregulation, for sodium-coupled transport of a range of organic and inorganic molecules, and for electrical excitability of muscle and nerve. ATP1B1 is combined of 2 subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates the number of sodium pumps transported to the plasma membrane through assembly of alpha/beta heterodimers. ATP1B1 is a beta 1 subunit.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ATP1B1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 264 amino acids (63-303) and having a molecular mass of 30.4 kDa. ATP1B1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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