Product Data Sheet

Product Name:	ATP1B1 Human, Sf9
Cat. No.:	GP22801
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Phycical 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	ADPEFKPTYQ DRVAPPGLTQ IPQIQKTEIS FRPNDPKSYE AYVLNIVRFL EKYKDSAQRD DMIFEDCGDV PSEPKERGDF NHERGERKVC RFKLEWLGNC SGLNDETYGY KEGKPCIIIK LNRVLGFKPK PPKNESLETY PVMKYNPNVL PVQCTGKRDE DKDKVGNVEY FGLGNSPGFP LQYYPYYGKL LQPKYLQPLL AVQFTNLTMD TEIRIECKAY GENIGYSEKD RFQGRFDVKI EVKSHHHHHH.		
Formulation	ATP1B1 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

ATPase Transporting 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. ATP1B1is 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

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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 Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 250 amino acids (63-303 a.a.) and having a molecular mass of 29kDa (Molecular size on SDS-PAGE will appear at approximately 28-40 kDa).ATP1B1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.