

32-13039: ATP1B1 Human, Sf9

Alternative Name : 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.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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. 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.

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.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : ATP1B1 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

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

Amino Acid : ADPEFKPTYQ DRVAPPGLTQ IPQIQKTEIS FRPNPKSYE AYVLNIVRFL EKYKDSAQRD DMIFEDCGDV PSEPKERGDF NHERGERKVC RFKLEWLGNC SGLNDETYGY KEGKPCIIK LNRVLGFKPK PPKNESLETY PVMKYNPVNL PVQCTGKRDE DKDKVGNVEY FGLGNSPGFP LQYYPYQKL LQPKYLQPLL AVQFTNLTMD TEIRIECKAY GENIGYSEKD RFQGRFDVKI EVKSHHHHHH.