
Product Data Sheet

Product Name: ATP1B3 Human
 Cat. No.: GP22804
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms ATPase Na⁺/K⁺ Transporting Beta 3 Polypeptide; Sodium-Potassium ATPase Subunit Beta 3 (Non-Catalytic); Sodium/Potassium-Transporting ATPase Subunit Beta-3; Sodium/Potassium-Dependent ATPase Subunit Beta-3; Sodium Pump Subunit Beta-3; ATPB-3; Sodium/Potassium-Transporting ATPase Beta-3 Chain; Sodium/Potassium-Dependent ATPase Beta-3 Subunit; Na K-ATPase Beta-3 Polypeptide; CD298 Antigen; CD298; ATP1B3.

Amino Acid Sequence
 MGSSHHHHHH SGLVPRGSH MGSTMWVMLQ TLNDEVPKYR DQIPSPGLMV
 FPKPVTALEY TFSRSDPTSY AGYIEDLKKF LKPYTLEEQK NLTVCPDGAL
 FEQKGPVYVA CQFPISLLQA CSGMNDPDFG YSQGNPCILV KMNRIIGLKP
 EGVPRIDCVS KNEDIPNAVAV YPHNGMIDLK YFPYYGKKLH VGYLQPLVAV
 QVSFAPNNTG KEVTVECKID GSANLKSQDD RDKFLGRVMF KITARA.

Formulation The ATP1B3 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 20% glycerol, 0.15M NaCl and 1mM DTT.

Introduction

ATPaseTransporting Beta 3 (ATP1B3) is a member of the X(+)/potassium ATPases subunit beta family. ATP1B3 is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na⁺ and K⁺ ions across the plasma membrane. The beta subunit controls, by way of assembly of alpha/beta heterodimers, the quantity of sodium pumps transported to the plasma membrane. The precise role of the beta-3 subunit is unknown.

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

ATP1B3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 246 amino acids (57-279) and having a molecular mass of 27.4 kDa. ATP1B3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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