



**Catalog Number:** PR27234

**Product Type:** Recombinant Protein

**Source:** *E. Coli*

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

**Description/Molecular Mass:** 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<sup>+</sup> and K<sup>+</sup> 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.

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.

**Purity:** Greater than 80.0% as determined by:  
(a) Analysis by SDS-PAGE.

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

**Storage:** 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.

### FOR RESEARCH USE ONLY

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