

Recombinant Human ATP1B3, His-tagged

Cat. No. ATP1B3-184H Lot. No. (See product label)

SPECIFICATION

Product Overview	ATP1B3, 57- 279aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	57- 279aa
Description	ATP1B3 belongs to the X(+)/potassium ATPases subunit beta family. This 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 exact function of the beta-3 subunit is not known. Recombinant human ATP1B3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.15M NaCl, 1mM DTT
Molecular Mass	27.4 kDa (246aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSTMWVMLQ TLNDEVPKYR DQIPSPGLMV F PKPVTALEY TFSRSDPTSY AGYIEDLKKF LKPYLEEQK NLTVCPDGAL FEQKGPVYVA CQFPISLLQA CSGMNDPDFG YSQGNPCILV KMNRIIGLKP EGVPRIDCVS KNEDIPNAVAV YPHNGMIDLK YFPYYGKKLH VGYLQPLVAV QVSFAPNNTG KEVTVECKID GSANLKSQDD RDKFLGRVMF KITARA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	ATP1B3 ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide [Homo sapiens]
Official Symbol	ATP1B3
Synonyms	ATP1B3; ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide; sodium/potassium-transporting ATPase subunit beta-3; CD298; FLJ29027; Na, K-ATPase beta-3 polypeptide; sodium/potassium-dependent ATPase beta-3 subunit; sodium/potassium-dependent ATPase subunit beta-3; sodium/potassium-transporting ATPase beta-3 chain; ATPB-3;
Gene ID	483
mRNA Refseq	NM_001679
Protein Refseq	NP_001670
MIM	601867
UniProt ID	P54709
Chromosome Location	3q23

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Pathway

Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Basigin interactions, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Carbohydrate digestion and absorption, organism-specific biosystem;

Function

sodium:potassium-exchanging ATPase activity;

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