

Recombinant Human ATP1B3 protein

Cat. No. ATP1B3-967H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ATP1B3 full-length ORF (NP_001670.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
Description	<p>The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle.</p> <p>This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	31.5 kDa
AA Sequence	MTKNEKKSLNQSLAEWKLFIYNPTTGEFLGRTAKSWGLILLFYLVFYGFLLAALFSFTM WVMLQTLNDEVPKYRDQIPSPGLMVFPKPVTALEYTFSRSDPTSYAGYIEDLKKFLK

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PYTL EEQKNLTVCPDGALFEQKGPVYVACQFPISLLQACSGMNDPFDGYSQGNPCI
 LVKMNRIIGLKPEGVPRIDCVSKNEDIPNVAVYPHNGMIDLKYFPYYGKKLHVGYLQP
 LVAVQVSFAPNNTGKEVTVECKIDGSANLKSQDDRDKFLGRVMFKITARA

Applications Antibody Production; Functional Study; Compound Screening

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

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](#)

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UniProt ID

P54709

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