

Recombinant Human ATP1B3 Protein, His-tagged

Cat. No. ATP1B3-151H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATPase Na ⁺ /K ⁺ transporting subunit beta 3(ATP1B3)(NM_001679), with a His tag, was expressed in human cells.
Species	Human
Source	Human Cells
Description	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. 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.
Form	Purified protein formulated in a sterile solution of TBS buffer, pH7.180, without any preservatives.
Molecular Mass	31.3 kDa

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Endotoxin	Endotoxin level is < 0.1 ng/g of protein (<1EU /g)
Purity	>90% by SDS-PAGE gel and Coomassie Blue staining
Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

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

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