Active Recombinant Human ATP1B2 Protein, His-tagged

Cat. No. ATP1B2-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATP1B2 (68-290aa, 232aa), fused to His-tag at Cterminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	68-290
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 2 subunit. Two transcript variants encoding different isoforms have been found for this gene.
Form	Liquid

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Bio-activity	Specific activity is > 3,000 pmol/min/μg, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of Adenosine 5-triphosphate to phosphate per minute per minute at pH 7.5 at 25 centigrade.
Molecular Mass	26.4 kDa
AA Sequence	DHTPKYQDRLATPGLMIRPKTENLDVIVNVSDTESWDQHVQKLNKFLEPYNDSIQAQ KNDVCRPGRYYEQPDNGVLNYPKRACQFNRTQLGNCSGIGDSTHYGYSTGQPCVF IKMNRVINFYAGANQSMNVTCAGKRDEDAENLGNFVMFPANGNIDLMYFPYYGKKF HVNYTQPLVAVKFLNVTPNVEVNVECRINAANIATDDERDKFAGRVAFKLRINKT
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	ATP1B2 ATPase Na+/K+ transporting subunit beta 2 [Homo sapiens (human)]
Official Symbol	ATP1B2
Synonyms	ATP1B2; ATPase Na+/K+ transporting subunit beta 2; AMOG; sodium/potassium-

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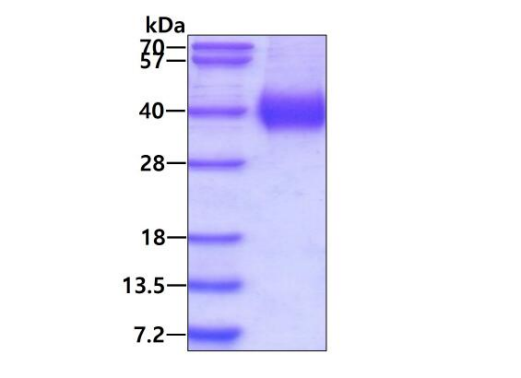
	transporting ATPase subunit beta-2; ATPase, Na+/K+ transporting, beta 2 polypeptide; Na, K-ATPase beta-2 polypeptide; adhesion molecule in glia; adhesion molecule on glia; sodium pump subunit beta-2; sodium-potassium ATPase subunit beta 2 (non-catalytic); sodium/potassium-dependent ATPase beta-2 subunit; sodium/potassium-dependent ATPase subunit beta-2; sodium/potassium-transporting ATPase beta-2 chain; EC 7.2.2.13
Gene ID	482
mRNA Refseq	NM_001678
Protein Refseq	NP_001669
MIM	182331
UniProt ID	P14415
SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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