

Recombinant Human ATP1B2 protein, His-tagged

Cat. No. ATP1B2-129H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP1B2(68-290aa) fused with His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	68-290 a.a.
Description	ATP1B2, as known as sodium/potassium-transporting ATPase subunit beta-2 isoform 1, is the family of Na ⁺ /K ⁺ and H ⁺ /K ⁺ ATPases beta chain proteins, and to the subfamily of Na ⁺ /K ⁺ ATPases. It 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 precise function of the beta-2 subunit is not known. This protein is composed of 3 subunits: alpha (catalytic), beta and gamma.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	26.4kDa (232aa) 28-40kDa (SDS-PAGE under reducing conditions.)
AA Sequence	ADPDHTPKYQ DRLATPGLMI RPKTENLDVI VNVSDTESWD QHVQKLNKFL EPYNDSIAAQ KNDVCRPGRY YEQPDNGVLN YPKRACQFNR TQLGNCSGIG DSTHYGYSTG QPCVFIKMNR VINFYAGANQ SMNVTCAGKR DEDAENLGNF VMFPANGNID LMYFPYYGKK FHVNYTQPLV

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	AVKFLNVTPN VEVNVECRIN AANIATDDER DKFAGRVAFK LRINKTHHHH HH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	> 90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	ATP1B2 ATPase, Na ⁺ /K ⁺ transporting, beta 2 polypeptide [Homo sapiens]
Official Symbol	ATP1B2
Synonyms	ATP1B2; ATPase, Na ⁺ /K ⁺ transporting, beta 2 polypeptide; sodium/potassium-transporting ATPase subunit beta-2; AMOG; adhesion molecule on glia; Na, K-ATPase beta-2 polypeptide; sodium/potassium-dependent ATPase beta-2 subunit; sodium/potassium-dependent ATPase subunit beta-2; sodium/potassium-transporting ATPase beta-2 chain;
Gene ID	482
mRNA Refseq	NM_001678
Protein Refseq	NP_001669

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MIM	182331
UniProt ID	P14415
Chromosome Location	17p13.1
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	protein binding; sodium:potassium-exchanging ATPase activity;
	