ATP1B2 Protein, Human (HEK293, His)

Cat. No.:	HY-P75587
Synonyms:	Sodium/potassium-transporting ATPase subunit beta-2; AMOG; ATP1B2
Species:	Human
Source:	HEK293
Accession:	P14415 (D68-T290)
Gene ID:	482
Molecular Weight:	Approximately 40-60 kDa due to the glycosylation.

PROPERTIES

AA Sequence	D H T P K Y Q D R L A T P G L M I R P K T E N L D V I V N V S D T E S W D Q H V Q K L N K F L E P Y N D S I Q A Q K N D V C R P G R Y Y E Q P D N G V L N Y P K R A C Q F N R T Q L G N C S G I G D S T H Y G Y S T G Q P C V F I K M N R V I N F Y A G A N Q S M N V T C A G K R D E D A E N L G N F V M F P A N G N I D L M Y F P Y Y G K K F H V N Y T Q P L V A V K F L N V T P N V E V N V E C R I N A A N I A T D D E R D K F A G R V A F K L R I N K T
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The ATP1B2 protein functions as the non-catalytic component of the active enzyme responsible for catalyzing ATP hydrolysis coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. While the precise function of the beta-2 subunit remains elusive, it plays a crucial role in mediating cell adhesion for both neurons and astrocytes, contributing to the cohesive interaction between these cells. Additionally, ATP1B2 promotes neurite outgrowth, suggesting

its involvement in the intricate processes that regulate the extension of neuronal projections. These cellular functions highlight ATP1B2's significance not only in ion transport but also in mediating adhesion and facilitating the structural development of neural networks.

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