Recombinant human ATP1B2 protein

Catalog Number: ATGP3528

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
68-290aa

UniProt No.
P14415

NCBI Accession No.
NP_001669

Alternative Names
Sodium/potassium-transporting ATPase subunit beta-2 isoform 1, ATP1B2, AMOG

PRODUCT SPECIFICATION

Molecular Weight
26.4 kDa (232aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Specific activity is > 3,000pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0pmole of Adenosine 5-triphosphate to phosphate per minute per minute at pH 7.5 at 25C.

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Recombinant human ATP1B2 protein

Catalog Number: ATGP3528

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. Recombinant human ATP1B2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

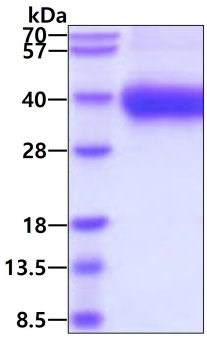
<ADP>DHTPKYQ DRLATPGLMI RPKTENLDVI VNVSDTESWD QHVQKLNKFL EPYNDSIQAQ KNDVCRPGRY YEQPDNGVLN YPKRACQFNR TQLGNCSGIG DSTHYGYSTG QPCVFIKMNR VINFYAGANQ SMNVTCAGKR DEDAENLGNF VMFPANGNID LMYFPYYGKK FHVNYTQPLV AVKFLNVTPN VEVNVECRIN AANIATDDER DKFAGRVAFK LRINKT<HHHH HH>

General References

Sun MZ., et al, (2013) Neuro-oncology 15:1518-1531.
Friedrich U., et al, (2011) Hum. Mol. Genet. 20:1132-1142.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain