

Recombinant human ATP1B2 protein

Catalog Number: ATGP4074

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

68-290aa

UniProt No.

P14415

NCBI Accession No.

NP_001669

Alternative Names

Adhesion molecule in glia, 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

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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 Cterminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

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

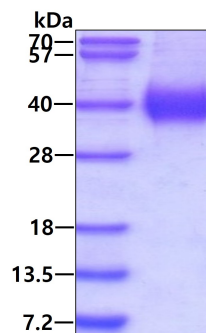
General References

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