

Recombinant Rat Atp1a4 Protein, His-tagged

Cat. No. Atp1a4-265R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Atp1a4 Protein (Met1-Pro92) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Pro92
Description	Enables P-type sodium:potassium-exchanging transporter activity. Involved in flagellated sperm motility; regulation of cellular pH; and spermatogenesis. Predicted to be located in rod photoreceptor outer segment and sperm midpiece. Predicted to be part of sodium:potassium-exchanging ATPase complex. Orthologous to human ATP1A4 (ATPase Na ⁺ /K ⁺ transporting subunit alpha 4).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 13.9 kDa Accurate Molecular Mass: 17 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

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accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name

Atp1a4 ATPase Na⁺/K⁺ transporting subunit alpha 4 [*Rattus norvegicus* (Norway rat)]

Official Symbol

Atp1a4

Synonyms

Atp1a4; ATPase Na⁺/K⁺ transporting subunit alpha 4; sodium/potassium-transporting ATPase subunit alpha-4; ATPase, Na⁺/K⁺ transporting, alpha 4 polypeptide; Na(+)/K(+) ATPase alpha-4 subunit; sodium pump subunit alpha-4; sodium/potassium-transporting ATPase subunit alpha-4-like; EC 7.2.2.13

Gene ID

29132

mRNA Refseq

NM_022848

Protein Refseq

NP_074039

UniProt ID

Q64541

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