

Recombinant Human ATP4a, His-tagged

Cat. No. ATP4a-3765H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATPase, H+/K+ Exchanging Alpha Polypeptide (ATP4a)
Species	Human
Source	E.coli
ProteinLength	1035
Description	The protein encoded by this gene belongs to a family of P-type cation-transporting ATPases. The gastric H⁺, K⁺-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H⁽⁺⁾ and K⁽⁺⁾ ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes a catalytic alpha subunit of the gastric H⁺, K⁺-ATPase.
Form	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	12.7kDa
Endotoxin	<1.0eu per 1ug (determined by the lal</1.0eu
Purity	>95%
Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)

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Notes	Small volumes of ATP4a recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	ATP4A ATPase, H+/K+ exchanging, alpha polypeptide [Homo sapiens]
Official Symbol	ATP4a
Synonyms	ATP6A
Gene ID	495
mRNA Refseq	NM_000704.2
Protein Refseq	NP_000695.2

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MIM	137216
UniProt ID	P20648
Chromosome Location	19q13.1
Pathway	Collecting duct acid secretion, organism-specific biosystem;Collecting duct acid secretion, conserved biosystem;Gastric acid secretion, organism-specific biosystem;Gastric acid secretion, conserved biosystem;Ion channel transport, organism-specific biosys
Function	ATP binding;hydrogen:potassium-exchanging ATPase activity;magnesium ion binding;protein heterodimerization activity;