

Recombinant Human ATP4A protein, His-tagged

Cat. No. ATP4A-19H **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human ATP4A(Leu798~Gly896) fused with His tag at N-terminal was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 798-896 a.a. |
| Description | <p>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.</p> |
| Form | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl. |
| Molecular Mass | 12.7kDa |
| AA Sequence | <p>MGHHHHHSG SEF-LTPYLIY ITVSVPLPLG CITILFIELD TDIFPSVSLA YEKAESDIMH LRPRNPKRDR LVNEPLAAYS YFQIGAIQSF AGFTDYFTAM AQEGWFPLLC VG</p> |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| Endotoxin | <1.0EU per 1g (determined by the LAL method) |
| Purity | > 95% |
| Applications | SDS-PAGE; WB; ELISA; IP. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| Reconstitution | Reconstitute in sterile PBS, pH7.2-pH7.4. |

GENE INFORMATION

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|----------------------------|--------------------------------------------------------------------|
| 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 |
| MIM | 137216 |
| UniProt ID | P20648 |
| Chromosome Location | 19q13.1 |

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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 biosystem;Ion transport by P-type ATPases, organism-specific biosystem;Oxidative phosphorylation, organism-specific biosystem;

Function

ATP binding;hydrogen:potassium-exchanging ATPase activity;magnesium ion binding;protein heterodimerization activity;

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