

Recombinant Human ATP4B protein, GST-tagged

Cat. No. ATP4B-2435H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP4B fused with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	ATP4B 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 the beta subunit of the gastric H ⁺ , K ⁺ -ATPase.
Form	Lyophilized from 0.2 µ filtered PBS, pH 7.4
Molecular Mass	54 kD
AA Sequence	CLYVLMQTV D PYTPDYQDQL RSPGVTLRPD VYGEKGLEIVYNVSDNRTWA DLTQTLHAFL AGYSPAAQED SINCTSEQYFFQESFRAPNH TKFSCKFTAD MLQNCISGLAD PNFGFEEGKPCFIKMNRIK KFLPSNGSAP RVDCAFLDQP RELGQPLQVKYPPNGTFSL HYFPYYGKKA QPHYSNPLVA AKLLNIPRNAEVAIVCKVMA EHVTFNNPHD PYEGKVEFKL KIEK
Storage	Long term: -80 centigrade; Short term: -20 centigrade. Avoid freeze-thaw cycles.

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GENE INFORMATION

Gene Name	ATP4B ATPase, H+/K+ exchanging, beta polypeptide [Homo sapiens]
Official Symbol	ATP4B
Synonyms	ATP4B; ATPase, H+/K+ exchanging, beta polypeptide; potassium-transporting ATPase subunit beta; ATP6B; proton pump beta chain; gastric H+/K+ ATPase beta subunit; gastric H(+)/K(+) ATPase subunit beta; gastric hydrogen-potassium ATPase, beta; potassium-transporting ATPase beta chain; ATPase, H+/K+ transporting, beta polypeptide;
Gene ID	496
mRNA Refseq	NM_000705
Protein Refseq	NP_000696
MIM	137217
UniProt ID	P51164
Chromosome Location	13q34
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;

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Function

hydrogen:potassium-exchanging ATPase activity; sodium:potassium-exchanging ATPase activity;

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