

Recombinant Human ATP4B

Cat. No. ATP4B-29416TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Hydrogen Potassium ATPase Beta with a N terminal proprietary tag: predicted molecular weight 37.73 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
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 the beta subunit of the gastric H⁺, K⁺-ATPase.
Molecular Weight	37.730kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DPYTPDYQDQLRSPGVTLRPDVYGEKGLEIVYNVSDNRTW ADLTQTLHAFLAGYSP AAQEDSINCTSEQYFFQESFRAPN HTKFSCCKFTADMLQNCSGLADPNFGFEEGK
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;
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

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biosystem;

Function

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

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