

Recombinant Mouse Atp4a protein, His/GST-tagged

Cat. No. Atp4a-20M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Atp4a(Pro786~Cys1014) fused with His/GST tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	786-1014 a.a.
Description	ATPase, H ⁺ /K ⁺ exchanging, gastric, alpha polypeptide played an important role in many functions.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	58.7kDa
AA Sequence	MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD GSTSGSGHHH HHHSAGLVPR GSTAIGMKET AAAKFERQHM DSPDLGTLEV LFQGPLGSEF- PELTP YLIYITVSVP LPLGCITILF IELCTDIFPS VSLAYEKAES DIMHLRPRNP KRDRLVNEPL AAYSYFQIGA IQSFAGFADY FTAMAQEGWF PLLCVGLRPQ WEDHHLQDLQ DSYGQEWTFG QRLYQQYTCTY TVFFISIEMC QIADVLIRKT RRLSVFQQGF FRNKILVIAI

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VFQVCIGCFL CYCPGMPNIF NFMPIRFQWW LVPMPFGLLI FVYDEIRKLG VRCC

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

Gene Name [Atp4a ATPase, H+/K+ exchanging, gastric, alpha polypeptide \[Mus musculus \]](#)

Official Symbol [Atp4a](#)

Synonyms potassium-transporting ATPase alpha chain 1; ATPase, H+/K+ exchanging, alpha polypeptide; ATPase, H+/K+ transporting, alpha polypeptide; H+/K+-ATPase alpha; H+K+-transporting alpha 1; gastric H(+)/K(+) ATPase subunit alpha; proton pump

Gene ID [11944](#)

mRNA Refseq [NM_001290627](#)

Protein Refseq [NP_001277556](#)

MIM

UniProt ID

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Chromosome Location	7 B1; 7 19.2 cM
Pathway	Collecting duct acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Ion transport by P-type ATPases, organism-specific biosystem
Function	ATP binding; hydrogen:potassium-exchanging ATPase activity; magnesium ion binding

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