Recombinant Human ATP, His-tagged

Cat. No. ATP6V1D-10045H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATPHis-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-247a.a.
Description	This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c, c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This gene encodes the V1 domain D subunit protein.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM

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	Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	ATP6V1D ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D [Homo sapiens]
Official Symbol	ATP6V1D
Synonyms	ATP6V1D; ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D; ATP6M, ATPase, H+ transporting, lysosomal (vacuolar proton pump); V-type proton ATPase subunit D; VATD; VMA8; V-ATPase D subunit; V-ATPase subunit D; vacuolar H-ATPase subunit D; vacuolar proton pump D subunit; vacuolar proton pump subunit D; vacuolar ATP synthase subunit D; vacuolar proton-ATPase subunit D; V-ATPase 28 kDa accessory protein; vacuolar proton pump delta polypeptide; ATPase, H+ transporting lysosomal, member M; H(+)-transporting two-sector ATPase, subunit M; ATPase, H+ transporting, lysosomal (vacuolar proton pump); ATP6M;
Gene ID	51382
mRNA Refseq	NM_015994
Protein Refseq	NP_057078
MIM	609398
UniProt ID	Q9Y5K8
Chromosome Location	14q23-q24.2
Pathway	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid

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	secretion, conserved biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATPase activity, coupled to transmembrane movement of substances; protein binding; proton-transporting ATPase activity, rotational mechanism;

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