

Recombinant Human ATP, His-tagged

Cat. No. ATP6V0D1-10037H **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	1-351a.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 encoded protein is known as the D subunit and is found ubiquitously.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM

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Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

Gene Name	ATP6V0D1 ATPase, H ⁺ transporting, lysosomal 38kDa, V0 subunit d1 [Homo sapiens]
Official Symbol	ATP6V0D1
Synonyms	ATP6V0D1; ATPase, H ⁺ transporting, lysosomal 38kDa, V0 subunit d1; ATP6D, ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump), member D , ATPase, H ⁺ transporting, lysosomal 38kDa, V0 subunit d isoform 1 , ATPase, H ⁺ transporting, lysosomal 38kDa, V0 subunit D1; V-type proton ATPase subunit d 1; ATP6DV; P39; VATX; Vma6; VPATPD; V-ATPase, subunit D; V-ATPase subunit d 1; V-ATPase AC39 subunit; 32 kDa accessory protein; vacuolar proton pump subunit d 1; V-ATPase 40 KDa accessory protein; H(+)-transporting two-sector ATPase, subunit D; ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump), member D; VMA6; ATP6D; FLJ43534;
Gene ID	9114
mRNA Refseq	NM_004691
Protein Refseq	NP_004682
MIM	607028
UniProt ID	P61421
Chromosome Location	16q22

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Pathway

Activation of Chaperone Genes by XBP1(S), organism-specific biosystem; Activation of Chaperones by IRE1alpha, organism-specific biosystem; Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem;

Function

hydrogen-exporting ATPase activity, phosphorylative mechanism; protein binding;

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