Recombinant Human ATP6V0E1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP6V0E1-2602H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP6V0E1 MS Standard C13 and N15-labeled recombinant protein (NP_003936) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 possibly part of the V0 subunit. Since two nontranscribed pseudogenes have been found in dog, it is possible that the localization to chromosome 2 for this gene by radiation hybrid mapping is representing a pseudogene. Genomic mapping puts the chromosomal location on 5q35.3.
Molecular Mass	9.2 kDa

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AA Sequence	MAYHGLTVPLIVMSVFWGFVGFLVPWFIPKGPNRGVIITMLVTCSVCCYLFWLIAILA QLNPLFGPQLKNETIWYLKYHWPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ATP6V0E1 ATPase H+ transporting V0 subunit e1 [Homo sapiens (human)]
Official Symbol	ATP6V0E1
Synonyms	ATP6V0E1; ATPase H+ transporting V0 subunit e1; M9.2; ATP6H; Vma21; Vma21p; ATP6V0E; V-type proton ATPase subunit e 1; ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1; H(+)-transporting two-sector ATPase, subunit H; V-ATPase 9.2 kDa membrane accessory protein; V-ATPase H subunit; V-ATPase M9.2 subunit; V-ATPase subunit e 1; vacuolar ATP synthase subunit H; vacuolar proton pump H subunit; vacuolar proton pump subunit e 1; vacuolar proton-ATPase subunit M9.2; EC 7.1.2.2
Gene ID	8992
mRNA Refseq	NM_003945

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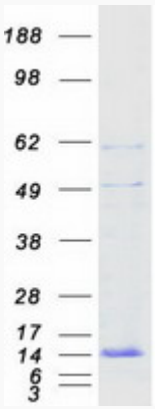
Protein Refseq	NP_003936
MIM	603931
UniProt ID	O15342
SDS-PAGE	

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