

Recombinant Human ATP, His-tagged

Cat. No. ATP6V0A2-10034H **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	3-372a.a.
Description	The protein encoded by this gene is a subunit of the vacuolar ATPase (v-ATPase), an heteromultimeric enzyme that is present in intracellular vesicles and in the plasma membrane of specialized cells, and which is essential for the acidification of diverse cellular components. V-ATPase is comprised of a membrane peripheral V(1) domain for ATP hydrolysis, and an integral membrane V(0) domain for proton translocation. The subunit encoded by this gene is a component of the V(0) domain. Mutations in this gene are a cause of both cutis laxa type II and wrinkly skin syndrome.
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 Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

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Gene Name	ATP6V0A2 ATPase, H ⁺ transporting, lysosomal V0 subunit a2 [Homo sapiens]
Official Symbol	ATP6V0A2
Synonyms	a2; A2V ATPase; ARCL; ATP6a2; ATP6N1D; ATP6V0A2; ATPase, H ⁺ transporting, lysosomal V0 subunit a isoform 2; ATPase, H ⁺ transporting, lysosomal V0 subunit a2; Infantile malignant osteopetrosis; J6B7; Lysosomal H(+) transporting ATPase V0 subunit a2; Lysosomal H(+)-transporting ATPase V0 subunit a2; Stv1; TJ6; TJ6M; TJ6s; V ATPase 116 kDa isoform a2; V type proton ATPase 116 kDa subunit a; V type proton ATPase 116 kDa subunit a isoform 2; V-ATPase 116 kDa isoform a2; V-type proton ATPase 116 kDa subunit a isoform 2; Vacuolar proton translocating ATPase 116 kDa subunit a; Vacuolar proton translocating ATPase 116 kDa subunit a isoform 2; Vph1; VPP2_HUMAN; WSS; ATP6V0A2
Gene ID	23545
mRNA Refseq	NM_012463.3
Protein Refseq	NP_036595.2
MIM	611716
UniProt ID	Q9Y487
Chromosome Location	12q24.31
Pathway	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Disease, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; Insulin receptor

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recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem

Function

hydrogen ion transmembrane transporter activity; protein binding

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