

Recombinant Human ATP, His-tagged

Cat. No. ATP6V1B2-10042H **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	162-511a.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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. The protein encoded by this gene is one of two V1 domain B subunit isoforms and is the only B isoform highly expressed in osteoclasts.
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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	ATP6V1B2 ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2 [Homo sapiens]
Official Symbol	ATP6V1B2
Synonyms	ATP6V1B2; ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2; ATP6B2, ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump), beta polypeptide, 56/58kD, isoform 2 , ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B, isoform 2 , VPP3; V-type proton ATPase subunit B, brain isoform; HO57; VATB; Vma2; V-ATPase B2 subunit; V-ATPase subunit B 2; vacuolar proton pump subunit B 2; H ⁺ transporting two-sector ATPase; vacuolar H ⁺ -ATPase 56,000 subunit; endomembrane proton pump 58 kDa subunit; VPP3; ATP6B2; ATP6B1B2;
Gene ID	526
mRNA Refseq	NM_001693
Protein Refseq	NP_001684
MIM	606939
UniProt ID	P21281
Chromosome Location	8p21.3
Pathway	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori

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infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

Function

ATP binding; hydrogen ion transmembrane transporter activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; proton

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