



# Recombinant Human V-type proton ATPase catalytic subunit A (ATP6V1A)

<b>Product Code</b>	CSB-MP002396HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P38606
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MDFSKLPKIL DEDKESTFGY VHGVSGPVVT ACDMAGAAMY ELVRVGHSEL VGEIIRLEGD MATIQVYEET SGVSVGDPVL RTGKPLSVEL GPGIMGAIFD GIQRPLSDIS SQTQSIYIPR GVNVSALSRD IKWDFTPCKN LRVGSHITGG DIYGIVSENS LIKHKIMLPP RNRGTVTYIA PPGNYDTSV VLELEFEGVK EKFTMVQVWP VRQVRPVTEK LPANHPLLTG QRVLDAFPC VQGGTTAIPG AFGCGKTVIS QLSKYSNSD VIIYVGCGER GNEMSEVLRD FPELTMEVDG KVESIMKRTA LVANTSMPV AAREASIYTG ITLSEYFRDM GYHVSMMAADS TSRWAEALRE ISGRLAEMPA DSGYPAYLGA RLASFYERAG RVKCLGNPER EGSVSIVGAV SPPGGDFSDP VTSATLGIVQ VFWGLDKKLA QRKHFPSVNW LISYSKYMRA LDEYYDKHFT EFVPLRTKAK EILQEEEDLA EIVQLVGKAS LAETDKITLE VAKLIKDDFL QQNGYTPYDR FCPFYKTVGM LSNMIAFYDM ARRAVETTAQ SDNKITWSII REHMGDILYK LSSMKFKDPL KDGEAKIKSD YAQLLEDMQN AFRSLED
<b>Source</b>	Mammalian cell
<b>Target Names</b>	ATP6V1A
<b>Protein Names</b>	Recommended name: V-type proton ATPase catalytic subunit A Short name= V-ATPase subunit A EC= 3.6.3.14 Alternative name(s): V-ATPase 69 kDa subunit Vacuolar ATPase isoform VA68 Vacuolar proton pump subunit alpha
<b>Expression Region</b>	1-617
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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 one of two V1 domain A subunit isoforms and is found in all tissues. Transcript variants derived from alternative polyadenylation exist.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.