

ATP6V0D1 Protein, Human, Recombinant (GST)

General Information

Synonyms:	V-type proton ATPase subunit d 1;32 kDa accessory protein;ATP6V0D1;ATP6D;V-ATPase subunit d 1;V-ATPase 40 kDa accessory protein;VPATPD;Vacuolar proton pump subunit d 1;V-ATPase AC39 subunit (p39)
Protein Construction:	1-351 aa
Species:	Human
Expression Host:	E. coli
Accession:	P61421
Molecular Weight:	67.3 kDa (predicted)
AA Sequence:	MSFFPELYFNVDNGYLEGLVRLKAGVLSQADYLNLVQCETLEDLKLHLQSTDYGNFLANEASPLTVSVIDDR LKEKMOVVEFRHMRNHAYEPLASFLDFITYSYMIDNVILLITGTLHQRSIAELVPKCHPLGSFEQMEAVNIAQTPA ELYNAILVDTPLAFFQDCISEQDLDEMNIIRNTLYKAYLESFYKFFCTLLGGTTADAMCPILEFEADRRRAFIITIN SFGTELSKEDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPYKLLFEGAGSNPGDKTLED RFFFEHEV KLNKLAFLNQFHFGVFYAFVKLKEQECRNIVWIAECIAQRHRAKIDNYIPIF

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Subunit of the integral membrane V0 complex of the lysosomal proton-transporting V-type ATPase (v-ATPase). V-

A DRUG SCREENING EXPERT

ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system. May play a role in coupling of proton transport and ATP hydrolysis. In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation. May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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