Data Sheet (Cat.No.TMPY-04137)

TargetMol

ATP6V1F Protein, Human, Recombinant (GST)

General Information

Synonyms:	Vma7;ATPase, H+ transporting, lysosomal 14kDa, V1 subunit F;VATF;ATP6S14
Protein Construction:	A DNA sequence encoding the human ATP6V1F (NP_004222.2) (Met1-Arg119) was expressed with the GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	A4D1K0
Molecular Weight:	40.2 kDa (predicted); 40 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. 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:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

ATP6V1F encodes a component of vacuolar ATPase mediating acidification. The cDNA and the genomic sequences of ATP6V1F were cloned successfully for the first time from the Giant Panda (Ailuropoda melanoleuca) using reverse transcription polymerase chain reaction and touchdown-polymerase chain reaction, respectively. Topology prediction showed that there is one protein kinase C phosphorylation site, two Casein kinase II phosphorylation sites, and one N-myristoylation site in the ATP6V1F protein. Up-regulated expression of

mammary tumor 8 kDa protein (MAT-8), complement component C1S (C1S), ferritin heavy chain (FTH1), peptidyl-prolyl cis-trans isomerase A (PPIA), RNA-binding protein regulatory subunit DJ-1 protein (DJ-1) and vacuolar ATP synthase subunit F (ATP6V1F) was determined in prostate carcinoma and confirmed by using quantitative real-time RT-PCR analyses.

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