

## VCP Protein, Human, Recombinant (His)

### General Information

Synonyms:	TER ATPase;Transitional Endoplasmic Reticulum ATPase;15S Mg(2+)-ATPase p97 Subunit; Valosin-Containing Protein;VCP
Protein Construction:	Ala2-Asn589
Species:	Human
Expression Host:	E. coli
Accession:	P55072
Molecular Weight:	75 KDa (reducing condition)
AA Sequence:	Ala2-Asn589

### 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:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 50 mM Tris-HCl, pH 8.0.

### Preparation and Storage

#### 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:

Proteins are shipped with blue ice.

### Protein Background

Valosin-Containing Protein (VCP) is a nuclear protein that belongs to the AAA ATPase family. VCP is a putative ATP-binding protein involved in vesicle transport and fusion, 26S proteasome function, and assembly of peroxisomes. It is necessary for the fragmentation of Golgi stacks during mitosis and their reassembly after mitosis. VCP has been implicated in a number of cellular events that are regulated during mitosis, including homotypic membrane fusion, spindle pole body function, and ubiquitin-dependent protein degradation. VCP participates in the formation of the transitional endoplasmic reticulum (tER) and regulates E3 ubiquitin-protein ligase activity of RNF19A.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481