

## Recombinant Human VCP Protein, GST-tagged

Cat. No. VCP-195H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human VCP was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>This gene encodes a member of the AAA ATPase family of proteins. The encoded protein plays a role in protein degradation, intracellular membrane fusion, DNA repair and replication, regulation of the cell cycle, and activation of the NF-kappa B pathway. This protein forms a homohexameric complex that interacts with a variety of cofactors and extracts ubiquitinated proteins from lipid membranes or protein complexes. Mutations in this gene cause IBMPFD (inclusion body myopathy with paget disease of bone and frontotemporal dementia), ALS (amyotrophic lateral sclerosis) and Charcot-Marie-Tooth disease in human patients.</p>
<b>Molecular Mass</b>	120 kDa
<b>Purity</b>	>85%
<b>Stability</b>	One year at -70 centigrade from the date of shipment.
<b>Storage</b>	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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**Concentration** 0.1 µg/µL

**Storage Buffer** Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

## GENE INFORMATION

**Gene Name** VCP valosin containing protein [ Homo sapiens (human) ]

**Official Symbol** VCP

**Synonyms** VCP; valosin containing protein; p97; TERA; CDC48; transitional endoplasmic reticulum ATPase; 15S Mg(2+)-ATPase p97 subunit; TER ATPase; EC 3.6.4.6

**Gene ID** 7415

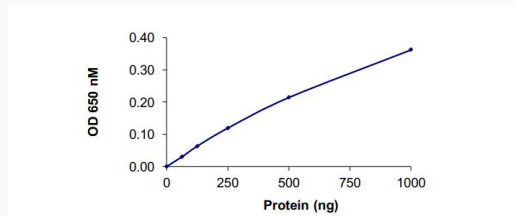
**mRNA Refseq** NM\_007126

**Protein Refseq** NP\_009057

**MIM** 601023

**UniProt ID** P55072

**Specific activity**



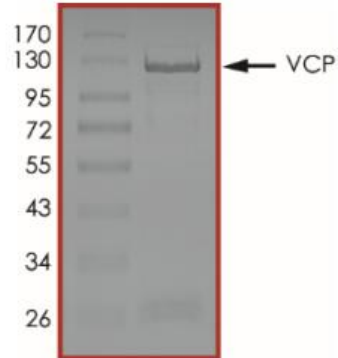
The specific activity of VCP was determined to be 140 nmol/min/mg.

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**Purity**



The purity of VCP was determined to be >85% by densitometry, approx. MW 120kDa.

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