

Recombinant Human VCP Protein, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human VCP was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
Description	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.
Molecular Mass	120 kDa
Purity	>85%
Stability	One year at -70 centigrade from the date of shipment.
Storage	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

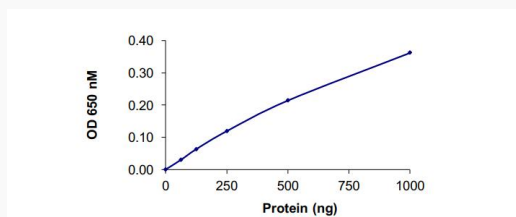
mRNA Refseq NM_007126

Protein Refseq NP_009057

MIM 601023

UniProt ID P55072

Specific activity



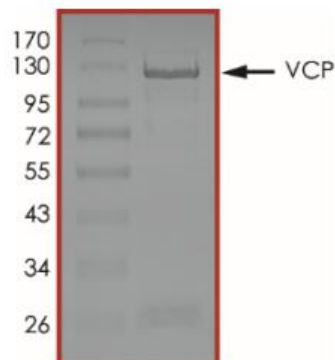
The specific activity of VCP was determined to be 140 nmol/min/mg.

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Purity



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

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