

Recombinant Mouse Vcp Protein (Met1-Gly806), N-His tagged

Cat. No. Vcp-6834M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Vcp (Met1-Gly806) fused with the N-terminal His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Gly806
Description	Enables several functions, including ATP hydrolysis activity; K48-linked polyubiquitin modification-dependent protein binding activity; and adenylyl ribonucleotide binding activity. Involved in ATP metabolic process; positive regulation of mitochondrial membrane potential; and proteasomal protein catabolic process. Acts upstream of or within activation of cysteine-type endopeptidase activity involved in apoptotic process; aggresome assembly; and ubiquitin-dependent protein catabolic process. Located in endoplasmic reticulum membrane and synapse. Part of ATPase complex; VCP-NSFL1C complex; and endoplasmic reticulum membrane. Is expressed in several structures, including cerebral cortex; early embryo; gonad; gut; and triceps surae muscle. Used to study inclusion body myopathy with Paget disease of bone and frontotemporal dementia. Human ortholog (s) of this gene implicated in several diseases, including Charcot-Marie-Tooth disease type 2Y; Paget's disease of bone; amyotrophic lateral sclerosis type 14; inclusion body myopathy with early-onset Paget disease of bone with or without frontotemporal dementia 1; and inclusion body myositis. Orthologous to human VCP (valosin containing protein).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized powder/frozen liquid
Molecular Mass	92.28 kDa
Purity	> 90 % as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	Vcp valosin containing protein [Mus musculus (house mouse)]
Official Symbol	Vcp
Synonyms	VCP; valosin containing protein; transitional endoplasmic reticulum ATPase; IBMPFD; p97; TER ATPase; yeast Cdc48p homolog; valosin-containing protein; 15S Mg (2+)-ATPase p97 subunit; TERA; ALS14; MGC8560; MGC131997; MGC148092;
Gene ID	269523
mRNA Refseq	NM_009503

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Protein Refseq	NP_033529
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UniProt ID	Q01853
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