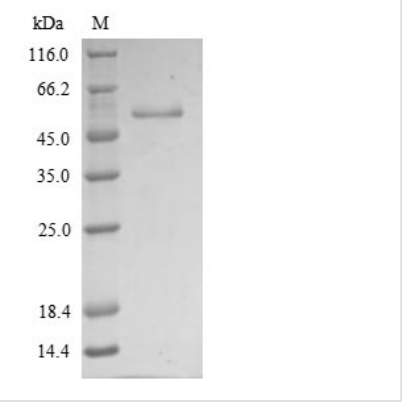
Recombinant Human Vimentin (VIM)

Product Code	CSB-YP025857HU
Relevance	Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally.
Abbreviation	Recombinant Human VIM protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P08670
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	STRSVSSSSYRRMFGGPGTASRPSSSRSYVTTSTRTYSLGSALRPSTSRSLY ASSPGGVYATRSSAVRLRSSVPGVRLLQDSVDFSLADAINTEFKNTRTNEKVE LQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQGKSRLGDLYEEEMRELRR QVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFRQDVD NASLARLDLERKVESLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLT AALRDVRQQYESVAAKNLQEAEEWYKSKFADLSEAANRNNDALRQAKQESTE YRRQVQSLTCEVDALKGTNESLERQMREMEENFAVEAANYQDTIGRLQDEIQ NMKEEMARHLREYQDLLNVKMALDIEIATYRKLLEGEESRISLPLPNFSSLNLR ETNLDSLPLVDTHSKRTLLIKTVETRDGQVINETSQHHDDLE
Research Area	Cancer
Source	Yeast
Target Names	VIM
Protein Names	Recommended name: Vimentin
Expression Region	2-466aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	55.5kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Recombinant Vimentin/VIM is a full-length of mature protein derived from the yeast cells. The expression region of this protein is the 2-466aa of human VIM protein. It carries an N-terminal 6xHis-tag and has a calculated molecular weight of 55.5 kDa. Its purity is greater than 90% determined by SDS-PAGE analysis. This recombinant VIM protein may be used to produce specific antibodies or in the studies of VIM-related cancer.

VIM is an intermediate filament (IF) helping to stabilize focal adhesion that governs cell migration. It also functions as a signal transducer from the extracellular matrix (ECM) to the nuclei. The VIM network recruits rapid phosphorylation and dephosphorylation that modulate integrin-mediated cell adhesion and facilitate directional cell motility. Pei-Wen Wang etc. demonstrated a new mechanism that VIM controlled the proliferation, differentiation, and movement of hepatic stellate cells (HSCs) through the ERK/AKT and Rho cascades. The study of Longxiang Su etc. revealed that VIM exerts a role in regulating immune cell apoptosis and inflammatory responses in sepsis.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.