

## Recombinant Human VIM Protein(Halo Tag)

**Catalog Number:** PDMH100457

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

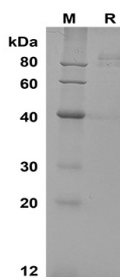
### Description

<b>Species</b>	Human
<b>Source</b>	Mammalian-derived Human VIM protein Met1-Glu466, with an C-terminal Halo
<b>Calculated MW</b>	93.1 kDa
<b>Observed MW</b>	91 kDa
<b>Accession</b>	P08670
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 85% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Human VIM proteins, 2µg/lane of Recombinant Human VIM proteins, was resolved with SDS-PAGE under reducing conditions, showing bands at 91 KD

### Background

### For Research Use Only

Vimentin is a type III intermediate filament(IF) protein found in various non-epithelial cells, especially mesenchymal cells. A vimentin monomer, has a central  $\alpha$ -helical domain and carboxyl(tail) domains. Two monomers compose the basic subunit of vimentin assembly. Vimentin is crucial for supporting and anchoring the position of the organelles in the cytosol. Vimentin provided cells with a resilience absent from the microtubule or actin filament networks, when under mechanical stress in vivo. Therefore, in general, it is accepted that vimentin is the cytoskeletal component responsible for maintaining cell integrity. Vimentin is also responsible for stabilizing cytoskeletal interactions. It is found that vimentin control the transport of low-density lipoprotein. It has been used as a sarcoma tumor marker to identify mesenchyme.

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