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Recombinant Human Vimentin/VIM Protein

Catalog No.: RP03179 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	7431	P08670

Tags
C-His

Synonyms
CTRCT30; HEL113;Vimentin

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
55.11 KDa.

Observed MW
55-60 KDa.

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 0.1% TFA, 40% acetonitrile.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Vimentin is a type III intermediate filament (IF) protein found in various non-epithelial cells, especially mesenchymal cells. A vimentin monomer, has a central α-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.

Basic Information

Description
Recombinant Human Vimentin/VIM Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Glu466) of Human Vimentin/VIM (Accession #NP_003371) fused with a His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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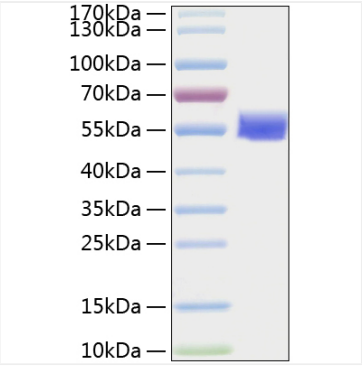
Validation Data



Recombinant Human Vimentin/VIM Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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