Recombinant Human VIM Full Length protein, His-tagged

Cat. No. VIM-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human VIM (Met 1- Glu466) was expressed, with a C-terminal polyhistidine tag.
Species	Human
Source	Insect Cells
ProteinLength	1-466 a.a.
Description	This gene encodes a member of the intermediate filament family. Intermediate filamentents, along with microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this gene is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is also involved in the immune response, and controls the transport of low-density lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions as an organizer of a number of critical proteins involved in attachment, migration, and cell signaling. Mutations in this gene causes a dominant, pulverulent cataract.
Predicted N Terminal	Met
Form	Lyophilized from sterile 40% acetonitrile +0.1%TFA.
Molecular Mass	The secreted recombinant human VIM consists of 476 amino acids and predicts a molecular mass of 55 KDa. The apparent molecular mass of the protein is approximately 56 KDa in SDS-PAGE under reducing conditions due to glycosylation.

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Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	VIM vimentin [Homo sapiens (human)]
Official Symbol	VIM
Synonyms	VIM; HEL113; CTRCT30; vimentin; epididymis luminal protein 113
Gene ID	7431
mRNA Refseq	NM_003380
Protein Refseq	NP_003371
MIM	193060
UniProt ID	P08670
Chromosome Location	10p13

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Pathway	Alpha6-Beta4 Integrin Signaling Pathway; Caspase cascade in apoptosis; Epstein-Barr virus infection
Function	double-stranded RNA binding; glycoprotein binding; protein C-terminus binding

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