

Recombinant Human Vimentin, His-tagged

Cat. No. VIM-4893H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human VIM was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
Description	VIM is a member of intermediate filament family of proteins and is an important structural feature of eukaryotic cells. Along with microtubules and actin microfilaments, VIM make up the cytoskeleton component of cells. Studies have shown that VIM is attached to the nucleus, endoplasmic reticulum and mitochondria, either laterally or terminally. VIM plays a significant role in supporting and anchoring the position of the organelles in the cytosol. Thus, VIM plays a key role in maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions.
Applications	Western Blot
Molecular Weight	60 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.
Purity	> 95 %

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Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Alpha6-Beta4 Integrin Signaling Pathway; Apoptosis; Apoptotic cleavage of cellular proteins; Apoptotic execution phase; Aurora B signaling; Caspase cascade in apoptosis; Caspase-mediated cleavage of cytoskeletal proteins; Muscle contraction; Striated Muscle Contraction

GENE INFORMATION

Gene Name	VIM vimentin [Homo sapiens]
Official Symbol	VIM
Synonyms	VIM; vimentin; FLJ36605; OTTHUMP00000019224; OTTHUMP00000019225
Gene ID	7431
mRNA Refseq	NM_003380
Protein Refseq	NP_003371
MIM	193060
UniProt ID	P08670

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Chromosome Location	10p13
Function	Protein C-terminus bindin; Protein binding; Structural constituent of cytoskeleton; identical protein binding
PDBrendering based on 1gk4.	