

## Recombinant Human Vimentin, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human VIM was expressed in E. coli cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Applications</b>	Western Blot
<b>Molecular Weight</b>	60 kDa
<b>Expression System</b>	E. coli
<b>Form</b>	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.
<b>Purity</b>	> 95 %

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<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<b>Pathways</b>	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

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

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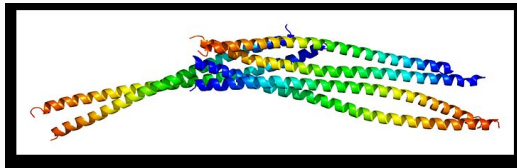
**Chromosome  
Location**

10p13

**Function**

Protein C-terminus bindin; Protein binding; Structural constituent of cytoskeleton; identical protein binding

**PDBrendering based  
on 1gk4.**



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