

Recombinant Human Vimentin, GST-tagged

Cat. No. VIM-4679H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Vimentin Human Recombinant GST Tag full length protein is produced in E.Coli, having a molecular weight of 86kDa (determined by SDS gel electrophoresis).
Species	Human
Source	Human
Description	Vimentin expression in human malignant glioma cells depends on cellular density, algorithms of drug delivery and chemo/radio treatment. Vimentin and detyrosinated microtubules provide structural support for the extensive microtentacles observed in detached tumor cells and a mechanism to promote successful metastatic spread. Primary colorectal carcinomas display aberrant expression of vimentin, and have activated Notch and TGFbeta signaling pathways. Vimentin is a strong arterial substrate for transglutaminases. Transglutaminase-mediated vimentin dimerization results in a novel unifying pathway by which vasodilatory and remodeling responses may be regulated. Ablation of vimentin expression inhibits migration and invasion of colon and breast cancer cell lines. Vimentin is the main intermediate filament protein in mesenchymal cells and is therefore of value in the differential diagnosis of undifferentiated neoplasms.
Form	The Vimentin protein solution contains 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.
Physical Appearance	Sterile filtered colorless solution.

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Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Full Length	Full L.
GENE INFORMATION	
Gene Name	VIM vimentin [Homo sapiens]
Official Symbol	VIM
Synonyms	VIM; FLJ36605; Vimentin; OTTHUMP00000019224
Gene ID	7431
mRNA Refseq	NM_003380
Protein Refseq	NP_003371
MIM	193060
UniProt ID	P08670
Chromosome Location	10p13
Pathway	Apoptosis; Muscle contraction
Function	Protein C-terminus bindin; Protein kinase binding; Structural constituent of cytoskeleton

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PDB rendering
based on 1gk4.

