

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	<p>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.</p>
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

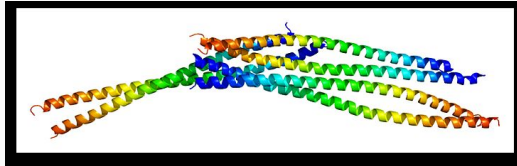
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PDB rendering
based on 1gk4.



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