

Vimentin Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10346020	(20 µg)
Species: Human	RBG10346100	(100 µg)
	RBG10346250	(250 µg)

Description

Vimentin is a class III intermediate filament protein predominantly found in cells of mesenchymal origins, such as vascular endothelium and blood cells, where it functions as a major cytoskeletal component. Due to its importance and abundance in the cytoskeletal structure of mesenchymally-derived cells, vimentin is frequently used as a developmental marker within cells of mesenchymal origin or cells undergoing epithelial-mesenchymal transition, which can occur during both normal and metastatic growth. An active participant within several critical processes of cellular organization and protein regulation, vimentin is involved in the anchorage of organelles within the cytoplasmic matrix, development of astrocytes, and the disassembly of cellular components during the execution phase of apoptosis. Abnormalities in the normal physiological pathways of vimentin have been implicated in deficient motility and directional migration involved in wound healing, cellular growth and development, as well as the adhesion-site accumulation of vimentin on lens epithelial cells in cases of dominant cataracts. Recombinant Human Vimentin is a 54.3 kDa protein consisting of 471 amino acid residues, including a 6-residue C-terminal His-Tag.

Amino Acid Sequence

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MSTRSVSSSS YRRMFGGPGT ASRPSSRSY VTTSTRTYSL GSALRPSTSR SLYASSPGGV YATRSSAVRL RSSVPGVRL
QDSVDFSLAD AINTEFKNTR TNEKVELQEL NDRFANYIDK VRFLEQQNKI LLAELEQLKG QGKSRLGDLY EEEMRELRRQ
VDQLTNDKAR VEVERDNLA E DIMRLREKLQ E EMLQREEAE NTLQSFQDV DNASLARLDL ERKVESLQEE IAFLLKLHEE
EIQELQAQIQ EQHVQIDVDV SKPDLTAALR DVRQQYESVA AKNLQEAEEW YKSKFADLSE AANRNNDALR QAKQESTEYR
RQVQSLTCEV DALKGTNESL ERQMREMEEN FAVEAANYQD TIGRLQDEIQ NMKEEMARHL REYQDLLNVK MALDIEIATY
RKLLEGEESR ISLPLPNFSS LNLRETNLDS LPLVDTHSKR TLLIKTVETR DGQVINETSQ HHDDLEHHHH HH
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Source

E. coli

Purity

95%

Biological Activity

Data not available.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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