

32-5226: Recombinant Human Vimentin

Alternative Name : Vimentin,Vim,FLJ36605.

Description

Source : Escherichia Coli. Vimentin Human Recombinant produced in E.coli cells is a single non-glycosylated protein containing 465 amino acids chain and having a molecular mass of 53.5kDa. The Vimentin is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	100 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The Vimentin was lyophilized from a 0.2µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA.
Storage condition :	Lyophilized Vimentin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Vimentin should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid :	STRSVSSSSY RRMFGGPGTA SRPSSRSYV TTSTRTYSLG SALRPSTSRS LYASSPGGVY ATRSSAVRLR SSVPGVRLQ DSVDFSLADA INTEFKNTRT NEKVELQELN DRFANYIDKV RFLEQQNKIL LAELEQLKGQ GKSRLGDLYE EEMRELRRQV DQLTNDKARV EVERDNLAED IMRLREKLQE EMLQREEAEN TLQSFQDQVD NASLARLDLE RKVESLQEEI AFLKKLHEEE IQELQAQIQE QHVQIDVDVS KPDLTALRD VRQYESVAA KNLQEAEEWY KSKFADLSEA ANRNNDALRQ AKQESTYRR QVQSLTCEVD ALKGTNESLE RQMREMEENF AVEAANYQDT IGRQDEIQN MKEEMARHLR EYQDLLNVKM ALDIEIATYR KLLGEEESRI SLPLPNFSSL NLRETNLDSL PLVDTHSKRT LLIKTVETRD GQVINETSQH HDDLE.

Application Note

It is recommended to reconstitute the lyophilized Vimentin in sterile 4mM HCl not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

