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Recombinant Human Vimentin (rHuVim)

CLPRO309
CLPRO309-2
CLPRO309-3

Introduction: 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.

Description: 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.

Synonyms: Vimentin, Vim, FLJ36605.

Source: *E.Coli*

Presentation: 20 µg (CLPRO309), 100 µg (CLPRO309-2), or 1 mg (CLPRO309-3) sterile filtered white lyophilized (freeze-dried) powder. The Vimentin was lyophilized from a 0.2µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA.

Solubility: 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.

Storage & Stability: Lyophilized rHuVim, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuVim 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.

Purity:

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC
- (b) Analysis by SDS Page

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Amino Acid Sequence: STRSVSSSSY RRMFGGPGTA SRPSSRSYV TTSTRTYSLG SALRPSTSR
LYASSPGGVY ATRSSAVRLR SSVPGVRLQ DSVDFSLADA INTEFKNTRT NEKVELQELN
DRFANYIDKV RFLEQQNKIL LAELEQLKGQ GKSRLGDLYE EEMRELRRQV DQLTNDKARV
EVERDNLAED IMRLREKLQE EMLQREEAEN TLQSFRQDVD NASLARLDLE RKVESLQEEI
AFLKKLHEEE IQELQAQIQE QHVQIDVDVS KPDLTAAALRD VRQQYESVAA KNLQEAEEWY
KSKFADLSEA ANRNNDALRQ AKQESTERYR QVQSLTCEVD ALKGTNESLE RQMREMEENF
AVEAANYQDT IGRNQDEIQN MKEEMARHLR EYQDLLNVKM ALDIEIATYR KLEGEESRI
SLPLPNFSSL NLRETNLDSL PLVDTHSKRT LLIKTVETRD GQVINETSQH HDDLE.

Laboratory Reagent For Research Use Only

MW 05/07/19