

Vimentin Protein, Human (sf9, His)

Cat. No.:	HY-P73551
Synonyms:	VIM; Vimentin
Species:	Human
Source:	Sf9 insect cells
Accession:	P08670 (M1-E466)
Gene ID:	7431
Molecular Weight:	Approximately 55.11 kDa

PROPERTIES

AA Sequence

MSTRSVSSSS	YRRMFGGPGT	ASRPSSRSY	VTTSTRTYSL
GSALRPSTSR	SLYASSPGGV	YATRSSAVRL	RSSVPGVRL
QDSVDFSLAD	AINTEFKNTR	TNEKVELQEL	NDRFANYIDK
VRFLEQQNKI	LLAELEQLKG	QGKSRLGDLY	EEEMRELRRQ
VDQLTNDKAR	VEVERDNLAE	DIMRLREKLQ	EEMLQREEAE
NTLQSFQRQDV	DNASLARLDL	ERKVESLQEE	IAFLKKLHEE
EIQELQAQIQ	EQHVQIDVDV	SKPDLTAALR	DVRQQYESVA
AKNLQEAEEW	YKSKFADLSE	AANRNNDALR	QAKQESTEYR
RQVQSLTCEV	DALKGTNESL	ERQMREMEEN	FAVEAANYQD
TIGRLQDEIQ	NMKEEMARHL	REYQDLLNVK	MALDIEIATY
RKLLLEGEESR	ISLPLPNFSS	LNLRETNLDS	LPLVDTHSKR
TLLIKTVETR	DGQVINETSQ	HHDDLE	

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of 40% acetonitrile, 0.1% TFA. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Vimentin, a class-III intermediate filament, is predominantly present in non-epithelial cells, particularly mesenchymal cells. This protein forms a structural network, linking to the nucleus, endoplasmic reticulum, and mitochondria either laterally or terminally. In collaboration with LARP6, vimentin plays a crucial role in stabilizing the messenger RNAs (mRNAs) of type I collagen, specifically CO1A1 and CO1A2, emphasizing its involvement in the regulation of extracellular matrix components essential for cellular structure and integrity.

Caution: Product has not been fully validated for medical applications. For research use only.

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