Vinculin Protein, Human (HEK293, His)

Cat. No.:	HY-P73550
Synonyms:	Vinculin; Metavinculin; VCL
Species:	Human
Source:	HEK293
Accession:	P18206-2 (M1-Q1066)
Gene ID:	7414
Molecular Weight:	Approximately 115 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. 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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Vinculin Protein, an actin filament (F-actin)-binding protein, is extensively involved in cell-matrix adhesion and cell-cell adhesion, playing crucial roles in cell morphology, locomotion, and mechanosensing. It regulates the expression of cell-surface E-cadherin and enhances mechanosensing through the E-cadherin complex. Vinculin exhibits self-association properties and forms a complex with THSD1, PTK2/FAK1, TLN1, and VCL. It interacts with APBB1IP, NRAP, TLN1, CTNNB1, SYNM, SORBS1, and CTNNA1, and its interaction with CTNNA1 is necessary for its localization to cell-cell junctions and regulation of E-cadherin expression. Additionally, Vinculin binds to ACTN4, triggering conformational changes.

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