

Product Data Sheet

Vinculin Protein, Human (GST)

Cat. No.:	HY-P71693
Synonyms:	CMD1W; CMH15; Epididymis luminal protein 114; HEL114; Metavinculin; MV; MVCL; Vinculin
Species:	Human
Source:	E. coli
Accession:	P18206 (2P-235E)
Gene ID:	7414
Molecular Weight:	Approximately 53.0 kDa

AA Sequence PVFHTRTIES ILEPVAQQIS HLVIMHEEGE VDGKAIPDLT APVAAVQAAV SNLVRVGKET VQTTEDQILK RDMPPAFIKV ENACTKLVQA AQMLQSDPYS VPARDYLIDG SRGILSGTSD LLLTFDEAEV RKIIRVCKGI LEYLTVAEVV ETMEDLVTYT KNLGPGMTKM AKMIDERQQE LTHQEHRVML VNSMNTVKEL LPVLISAMKI FVTTKNSKNQ GIEEALKNRN FTVE Appearance Lyophilized powder.	DDODEDTIEC						
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LLLTFDEAEV RKIIRVCKGI LEYLTVAEVV ETMEDLVTYT KNLGPGMTKM AKMIDERQQE LTHQEHRVML VNSMNTVKEL PVLISAMKI FVTTKNSKNQ GIEEALKNRN FTVE Appearance Lyophilized powder. FTVE Formulation Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol. Itiung, determined by LAL method. Reconsititution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH2O. Storage & Stability 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 recommended to freeze aliquots at -20°C or -80°C for extended storage.		ΕΝΑCΤΚLVQΑ	AQMLQSDPYS	VPARDYLIDG	SRGILSGTSD		
KNLGPGMTKM AKMIDERQQE LTHQEHRVML VNSMNTVKEL PVLISAMKI FVTTKNSKNQ GIEEALKNRN FTVE Appearance Lyophilized powder. Isophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol. Isophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol. Endotoxin Level <1EU/µg, determined by LAL method.		LLLTFDEAEV	RKIIRVCKGI	LEYLTVAEVV	ETMEDLVTYT		
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				extended storage.			
Shipping Room temperature in continental US: may vary elsewhere	Shinning	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.

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

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