

CD146/MCAM Protein, Human (HEK293, His)

Cat. No.:	HY-P75612
Synonyms:	Cell surface glycoprotein MUC18; CD146; MCAM; MUC18
Species:	Human
Source:	HEK293
Accession:	P43121 (V24-G559)
Gene ID:	4162
Molecular Weight:	80-110 kDa (glycosylation)

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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 ddH ₂ O.
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	The CD146/MCAM protein plays a crucial role in cell adhesion and maintaining the integrity of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression enables melanoma cells to interact with the cellular components of the vascular system, potentially promoting the spread of tumors through the bloodstream. During embryonic development, CD146/MCAM may function as an adhesion molecule in neural crest cells. It acts as a surface receptor, initiating the tyrosine phosphorylation of FYN and PTK2/FAK1, and leading to a transient rise in intracellular calcium levels.
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Caution: Product has not been fully validated for medical applications. For research use only.

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