

Cadherin-6/KCAD Protein, Rat (HEK293, His)

Cat. No.:	HY-P77038
Synonyms:	Cadherin-6; Kidney cadherin; K-cadherin; CDH6
Species:	Rat
Source:	HEK293
Accession:	EDL82944 (T19-A615)
Gene ID:	/
Molecular Weight:	Approximately 67.9 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.
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	Cadherin-6/KCAD, a member of the calcium-dependent cell adhesion protein family, assumes a crucial role in mediating cellular adhesion. It exhibits a preference for interacting with other cadherin molecules of the same type in a homophilic manner, facilitating the adhesion between connecting cells. This unique ability of cadherins to selectively interact with themselves contributes to the sorting and organization of heterogeneous cell types in tissues and organs. As a calcium-dependent adhesion protein, Cadherin-6/KCAD participates in maintaining the structural integrity of tissues and regulating cellular processes such as development, differentiation, and morphogenesis. Cadherin-6 is specifically expressed in the proximal tubules of normal human kidneys, and suggests that changes in cadherin-6 expression are associated with the progression of renal cell carcinoma. In addition, Cadherin 6 is expressed on the platelet surface and plays an essential role in thrombosis <i>in vivo</i> ^{[1][2]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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