

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 85-95 kDa due to the glycosylation.

PROPERTIES

AA Sequence

T F S N P L S K R T	S G F P A K R R A L	E L S A N S R N E L	S R S K R S W M W N
Q F F L L E E Y T G	S D Y Q Y V G K L H	S D Q D R G D G S L	K Y I L S G D G A G
D L F I I N E N T G	D I Q A T K R L D R	E E K P V Y I L R A	Q A I N R R T G R P
V E P E S E F I I K	I H D I N D N E P I	F T K D V Y T A T V	P E M A D V G T F V
V Q V T A T D A D D	P T Y G N S A K V V	Y S I L Q G Q P Y F	S V E S E T G I I K
T A L L N M D R E N	R E Q Y Q V V I Q A	K D M G G Q M G G L	S G T T T V N I T L
T D V N D N P P R F	P Q S T Y Q F K T P	E S S P P G T P I G	R I K A S D A D V G
E N A E I E Y S I T	D G E G H D M F D V	I T D Q E T Q E G I	I T V K K L L D F E
K K R V Y T L K V E	A S N P H I E P R F	L Y L G P F K D S A	T V R I V V D D V D
E P P V F S K L A Y	I L Q I R E D A Q I	N T T I G S V A A Q	D P D A A R N P V K
Y S V D R H T D M D	R I F N I D S G N G	S I F T S K L L D R	E T L L W H N I T V
I A T E I N N P K Q	S S R V P L Y I K V	L D V N D N A P E F	A E F Y E T F V C E
K A K A D Q L I Q T	L H A V D K D D P Y	S G H Q F S F S L A	P E A A S G S N F T
I Q D N K D N T A G	I L T R K N G Y N R	H E M S T Y L L P V	V I S D N D Y P V Q
S S T G T V T V R V	C A C D H H G N M Q	S C H A E A L I H P	T G L S T G A

Biological Activity Measured by the ability of the immobilized protein to support the adhesion of Caki-2 human clear cell carcinoma epithelial cells. The ED₅₀ for this effect is 0.6536 µg/mL, corresponding to a specific activity is 1529.98 units/mg.

Appearance Lyophilized powder

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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 *in vivo*^{[1][2]}.

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

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