

R-Cadherin/CDH4 Protein, Human (HEK293, His)

Cat. No.:	HY-P77172
Synonyms:	Cadherin-4; Retinal cadherin; R-CAD; R-cadherin
Species:	Human
Source:	HEK293
Accession:	P55283 (H21-A734)
Gene ID:	1002
Molecular Weight:	Approximately 90-115 kDa

PROPERTIES

AA Sequence

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

Biological Activity	Measured in a cell proliferation assay using SH-SY5Y cells. The ED ₅₀ for this effect is 0.3577 µg/mL, corresponding to a specific activity is 2.796×10 ⁴ units/mg.
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Appearance	Lyophilized powder
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Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 100 mM NaCl, pH 8.0.
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Endotoxin Level	<1 EU/µg, determined by LAL method.
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Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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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

R-Cadherin, or CDH4, is a calcium-dependent cell adhesion protein that facilitates cellular interactions through homophilic binding, primarily interacting with itself. This characteristic enables cadherins to play a crucial role in the cohesion of connecting cells, potentially contributing to the sorting of diverse cell types. The significance of R-Cadherin extends to retinal development, where its involvement suggests a pivotal function in the intricate processes that govern the formation and organization of the retina. By participating in calcium-dependent cell adhesion, R-Cadherin emerges as a key player in the regulation of cellular arrangements and tissue development, particularly in the context of retinal tissue.

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

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