

CNTN5/Contactin-5 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76842
Synonyms:	Contactin-5; Neural recognition molecule NB-2; hNB-2
Species:	Mouse
Source:	HEK293
Accession:	P68500 (L24-Q1058)
Gene ID:	244682
Molecular Weight:	Approximately 110-135 kDa due to the glycosylation.

PROPERTIES

AA Sequence

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

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of C6 Rat brain glial cells. When 5×10^4 cells/well are added to CNTN5 coated plates (2.5µg/mL and 100 µL/well), approximately 51.30% will adhere specifically after 60 minutes at 37°C.

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 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).
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

Contactin-5 (CNTN5) is a protein crucial for mediating cell surface interactions during nervous system development, emphasizing its role in the establishment of neural connections. It exhibits neurite outgrowth-promoting activity, particularly in cerebral cortical neurons, highlighting its involvement in the extension of neuronal processes during brain development (By similarity). Interestingly, this neurite outgrowth-promoting activity is not observed in hippocampal neurons, suggesting a context-dependent function. CNTN5 is also implicated in neuronal activity within the auditory system, underlining its diverse roles in various regions of the nervous system. Furthermore, CNTN5 interacts with PTPRG, suggesting potential involvement in signaling pathways or cellular adhesion during neural development. The multifaceted functions and interactions of Contactin-5 underscore its importance in orchestrating complex processes during nervous system development.

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

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