

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

Cat. No.:	HY-P76841
Synonyms:	Contactin-5; Neural recognition molecule NB-2; hNB-2
Species:	Human
Source:	HEK293
Accession:	O94779 (E19-Q1059)
Gene ID:	53942
Molecular Weight:	Approximately 115-150 kDa

PROPERTIES

AA Sequence

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

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Biological Activity

Measured by its ability to enhance the outgrowth of SH-SY5Y cells. The ED₅₀ of this effect is 1.986 µg/mL, corresponding to a specific activity is 503.525 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 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) plays a crucial role in mediating cell surface interactions during nervous system development. While it exhibits neurite outgrowth-promoting activity in cerebral cortical neurons, it does not exert the same effect in hippocampal neurons. CNTN5 is implicated in neuronal activity within the auditory system, highlighting its potential role in sensory processes. Furthermore, it interacts with protein tyrosine phosphatase receptor gamma (PTPRG), suggesting a molecular partnership that may contribute to the regulation of neuronal functions and connectivity.

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

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