

Contactin-3/CNTN3 Protein, Rat (HEK293, His)

Cat. No.:	HY-P74226
Synonyms:	Contactin-3; BIG-1; CNTN3; KIAA1496; PANG
Species:	Rat
Source:	HEK293
Accession:	Q62682 (E20-G1001)
Gene ID:	54279
Molecular Weight:	Approximately 120-150 kDa due to the glycosylation.

PROPERTIES

AA Sequence

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

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Biological Activity

Measured by its binding ability in a functional ELISA. When Recombinant Rat CNTN3 is present at 2 µg/mL, can bind Recombinant Human Amyloid Precursor. The ED₅₀ for this effect is 0.098 µg/mL.

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-3/CNTN3 protein is involved in mediating essential cell surface interactions crucial for nervous system development. This protein also possesses neurite outgrowth-promoting activity, indicating its role in promoting the extension of neuronal processes. Additionally, Contactin-3/CNTN3 protein interacts with PTPRG, suggesting its involvement in intricate signaling mechanisms that regulate neuronal growth and connectivity.

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

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