

Contactin-2/CNTN2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70054
Synonyms:	rHuContactin-2/CNTN2, His ; Contactin-2; Axonal glycoprotein TAG-1; Axonin-1; Transient axonal glycoprotein 1; CNTN2; AXT; TAG1; TAX1
Species:	Human
Source:	HEK293
Accession:	Q02246 (S31-N1012)
Gene ID:	6900
Molecular Weight:	110-140 kDa

PROPERTIES

AA Sequence

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

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-2/CNTN2 protein, in collaboration with the transmembrane protein CNTNAP2, plays a pivotal role in the organization of axonal domains at nodes of Ranvier, primarily by ensuring the maintenance of voltage-gated potassium channels at the juxtaparanodal region. This intricate partnership highlights its involvement in the structural integrity and functional organization of axonal signaling. Additionally, Contactin-2/CNTN2 may contribute to cell adhesion, implicating its potential role in mediating interactions between cells. The combined actions of Contactin-2/CNTN2 and CNTNAP2 underscore their significance in establishing and maintaining the precise architecture of nodes of Ranvier, crucial for efficient nerve conduction and cellular adhesion processes.

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

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