

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

Cat. No.:	HY-P74223
Synonyms:	Contactin-2; Axonal glycoprotein TAG-1; Axonin-1; Transient axonal glycoprotein 1; CNTN2; AXT; TAG1; TAX1
Species:	Mouse
Source:	HEK293
Accession:	Q61330 (Q31-E1013)
Gene ID:	21367
Molecular Weight:	Approximately 128-135 kDa due to the glycosylation.

PROPERTIES

AA Sequence

QGT PATFGPV	FEEQPVGLLF	PEESAEDQVT	LACRARASPP
ATYRWKMNGT	EMNLEPGSRH	QLMGGNLVIM	SPTKAQDAGV
YQCLASNPVG	TVVSKEAVLR	FGFLQEF SKE	ERDPVKTHEG
WGVMLPCNPP	AHYPGLSYRW	LLNEFPNFIP	TDGRHFVSQT
TGNLYIARTN	ASDLGNY SCL	ATSHLDFSTK	SVFSKFAQLN
LAAEDPRLFA	PSIKARFPPE	TYALVGQQVT	LECFAFGNPV
PRIKWRKVDG	SLSPQWGTA E	PTLQIPSVSF	EDEGTYECEA
ENSKGRDTVQ	GRIIVQAQPE	WLKVISDTEA	DIGSNLRWGC
AAAGKPRPMV	RWLRNGEPLA	SQNRVEVLAG	DLRFSKLNLE
DSGMYQCVAE	NKHGTIYASA	ELAVQALAPD	FRQNPVRRLI
PAARGGEISI	PCQPRAAPKA	TILWSKGTEI	LGNSTRVTVT
LDGTLIIRNI	SRSDEGKYTC	FAENFMGKAN	STGILSVRDA
TKITLAPSSA	DINVGDNLT L	QCHASHDPTM	DLTFTWTLDD
FPVDFDKPGG	HYRRASVKET	IGDLTILNAQ	LRHGGTYTCM
AQTVVDGASK	EATVLRGPP	GPPGGVVVRD	IGDTTVQLSW
SRGFDNHSP I	AKYTLQARTP	PSGKWKQVRT	NPVNI EGNAE
TAQVLGLMPW	MDYEF RVSAS	NILGTGEP SG	PSSRI RTKEA
VPSVAPSGLS	GGGGAPGELT	INWTPMSREY	QNGDGFYLL
SFRRQGS SSW	QTARVPGADT	QYFVYSNDSI	HPYTPFEVKI
RSYNRRGDGP	ESLTAIVYSA	EEEPKVAPAK	VWAKGSSSSE
MNVSWEPVLQ	DMNGILLGYE	IRYWKAGDKE	AAADRVRTAG
LDSSARVTGL	YPNTKYHVTV	RAYNRAGTGP	ASPSADAMTM
KPPRRPPGN	ISWTFSSSSL	SLKWDPVVPL	RNESTVTGYK
MLYQNDLQPT	PMLHLT SKNW	IEIPVPEDIG	HALVQIRTTG
PGGDGIPA EV	HIVRNGG TSM	MVE	

Biological Activity

Measured in a cell proliferation assay using SH-SY5Y cells. The ED₅₀ for this effect is 1.421 µg/mL, corresponding to a specific activity is 703.729 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

Partnering with the transmembrane protein CNTNAP2, the Contactin-2/CNTN2 protein plays a crucial role in organizing axonal domains at nodes of Ranvier. Its collaborative action involves the maintenance of voltage-gated potassium channels specifically at the juxtapanodal region. This dynamic interplay highlights Contactin-2's pivotal contribution to the intricate molecular architecture that underlies the proper functioning of nodes of Ranvier, essential for the efficient propagation of nerve impulses along myelinated axons.

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

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