

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

LSGLSTSYAA	LLRIKKSSTS	PFGSKSRPRF	SSPSLGTISV
SPPSWRGA AQ	QYHSPGNLYH	SSDAFRQDES	VDYGPV FVQE
PDDVIFPTDS	DEKKVALNCE	VRGNPSPSYR	WLRNGTEIAL
ESDYRYSLID	GTFIISNPSE	LRDSGLYQCL	ATNSFGSILS
REATLQFAYL	GNFSGRTRSA	VSVREGQG VV	LMCSPPPHSP
EIIYSWVFNE	FPSFVAEDSR	RFISQETGNL	YISKVQTS DV
GSYICLVKNA	VTNARVLSPP	TPLTLRNDGV	MGEYEPKIEV
HFPFTVTA AK	GTTVKMECFA	LGNPVPTITW	MKVNGYIPSK
SRLRKSQAVL	EIPNLQLDDA	GIYEECTAENS	RGKNSFRGQL
QIFTYPHWVQ	KLNDTQLDSG	SPLQWECKAT	GKPRPTYRWL
KNGAPLLPQS	RVDTVNGILA	IQSVNQSDAG	MYQCLAENKY
GAIYASAE LK	ILASPPSFEL	NQVKKSIIVT	KDRGVLIECE
PQGSPKPAIS	WRKGDKAVRA	NKRIAILPDG	SLRILNASKA
DEGKYICQGV	NIFGSAEIIA	SLSVKEPTRI	ELTPKRTELT
VGESIVLNCK	AIHDA SLDVT	FYWTLKGQPI	DFEKEGGHFE
NIRAQASSAD	LMIRNILLMH	AGRYGCRVQT	TADSVSDEAE
LLVRGPPGPP	GVVIVEEITE	STATLSWSPA	TDNHSPISSY
NLQARSPFSL	GWQTVKTVPE	VITGDMESAM	AVDLNPWVEY
EFRVATNPI	GTGDPSIPSR	MIRTNEAVPK	TAPSNVSGRS
GRRHELVI AW	EPVSEEFQNG	EGFGYIVAFR	PNGTRGWKEK
MVTSSEASKF	IYRDESVPPL	TPFEVKVGVY	NNKGDGPF SQ
IVVICSAEGE	PTAAPT D VTA	TSVSVSEIFV	VWKHVKESLG
RPQGF EISYW	KDTEPEDSVE	TVRTRGNESF	VMLTGLEGNT
LYHLTVRAYN	GAGYGPPSRE	ASTTTKRHPP	REPPGNLRWE
QQGSQVSLGW	EPVRPLANES	EVMGYKVFYR	QEGHSEGV I
ETQKPQAVVP	LPEAGVYIIE	VRAYSEGGDG	TASSQ

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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