

Contactin-1/CNTN1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74224
Synonyms:	CNTN1; Contactin1; F11; F3; Neural cell surface protein F3
Species:	Mouse
Source:	HEK293
Accession:	P12960 (M1-L1000)
Gene ID:	12805
Molecular Weight:	110-120 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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-1/CNTN1 protein plays a crucial role in mediating cell surface interactions during nervous system development. It is involved in the formation of paranodal axo-glial junctions in myelinated peripheral nerves and facilitates signaling between axons and myelinating glial cells through its association with CNTNAP1. This protein also participates in the generation of oligodendrocytes by acting as a ligand for NOTCH1. The interaction between Contactin-1/CNTN1 and NOTCH1 promotes the activation of NOTCH1 through the release of the notch intracellular domain (NICD) and subsequent translocation to the nucleus. Additionally, Contactin-1/CNTN1 interacts with TNR, leading to neuronal repulsion and inhibition of neurite outgrowth. It exists as a monomer and interacts with CNTNAP1 in a cis form, while binding to the carbonic-anhydrase like domain of PTPRZ1. Furthermore, Contactin-1/CNTN1 is detected in a complex with NRCAM and PTPRB and interacts with TASOR.
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Caution: Product has not been fully validated for medical applications. For research use only.

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