

CNTN6/Contactin-6 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76278
Synonyms:	Contactin-6; Neural recognition molecule NB-3; hNB-3
Species:	Human
Source:	HEK293
Accession:	Q9UQ52 (D20-S999)
Gene ID:	27255
Molecular Weight:	Approximately 135.3 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm 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/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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-6 (CNTN6) is a crucial player in nervous system development, where contactins mediate cell surface interactions. CNTN6 participates in the generation of oligodendrocytes by serving as a ligand for NOTCH1. Its association with NOTCH1 leads to the activation of NOTCH1 through the release of the notch intracellular domain (NICD), facilitating its translocation to the nucleus. This involvement in NOTCH1 signaling underscores CNTN6's role in regulating cellular processes associated with oligodendrocyte development. Moreover, CNTN6 has been implicated in motor coordination (By similarity), suggesting its potential contribution to neural circuits governing motor function. The interaction with PTPRG further emphasizes the complex regulatory network in which CNTN6 participates during nervous system development.
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Caution: Product has not been fully validated for medical applications. For research use only.

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