

CNTN4/Contactin-4 Protein, Human (sf9, His)

Cat. No.:	HY-P76277
Synonyms:	Contactin-4; Brain-derived immunoglobulin superfamily protein 2; BIG-2
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8IWW2 (M1-S1000)
Gene ID:	152330
Molecular Weight:	120-130 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.5, 10% Glycerol. 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-4 (CNTN4) is a protein critically involved in mediating cell surface interactions essential for nervous system development. This multifunctional molecule exhibits neurite outgrowth-promoting activity, underscoring its role in facilitating the extension of neuronal processes. Additionally, CNTN4 may play a key role in synaptogenesis, the process of forming functional connections between neurons. The interaction of CNTN4 with PTPRG suggests potential involvement in modulating signaling pathways or cellular adhesion during neural development. The diverse functions attributed to Contactin-4, including neurite outgrowth promotion and potential contributions to synaptogenesis, highlight its importance in orchestrating intricate processes crucial for the establishment of functional neural circuits.
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Caution: Product has not been fully validated for medical applications. For research use only.

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