CSPG5 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77834
Synonyms:	Chondroitin sulfate proteoglycan 5; Cspg5; Caleb; Ngc; CALEB; MGC44034; Neuroglycan C; NGC
Species:	Mouse
Source:	HEK293
Accession:	Q71M36 (V31-C423)
Gene ID:	29873
Molecular Weight:	60-80 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	The CSPG5 protein appears to play a pivotal role as a growth and differentiation factor in neuritogenesis. Its potential induction of ERBB3 activation underscores its involvement in signaling pathways associated with cellular growth and differentiation. CSPG5 also exhibits binding capabilities with TNR and likely TNC, suggesting its interaction with key molecules in cellular processes. Furthermore, it interacts with ERBB3 and GOPC, indicating a network of associations that may contribute to its functional roles. Notably, CSPG5 interacts with MDK independently of the presence of chondroitin sulfate chains, promoting the elongation of oligodendroglial precursor-like cells. These findings highlight the multifaceted nature of CSPG5's involvement in neurodevelopmental processes, suggesting its significance in orchestrating cellular responses and interactions critical for proper nervous system development.

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