

## CSPG5 Protein, Human (HEK293, His)

Cat. No.:	HY-P77833
Synonyms:	Chondroitin sulfate proteoglycan 5; Acidic leucine-rich EGF-like domain-containing brain protein; Neuroglycan C; CALEB; chondroitin sulfate proteoglycan 5 (neuroglycan C; MGC44034; Neuroglycan C; NGC; NGC
Species:	Human
Source:	HEK293
Accession:	O95196 (V31-C423)
Gene ID:	10675
Molecular Weight:	52-62 kDa

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	<p>The CSPG5 protein emerges as a potential growth and differentiation factor, actively participating in neuritogenesis, a critical process in neural development. CSPG5 may exert its influence by inducing the activation of ERBB3, a key signaling pathway involved in cellular growth and differentiation. Additionally, CSPG5 exhibits binding affinity for TNR and likely TNC, suggesting potential interactions with extracellular matrix components. Furthermore, CSPG5 interacts with ERBB3 and GOPC, implicating its involvement in complex cellular signaling networks. Notably, the interaction with MDK, independent of chondroitin sulfate chains, promotes the elongation of oligodendroglial precursor-like cells, underscoring its role in supporting neural cell differentiation. These findings highlight the multifaceted nature of CSPG5 in orchestrating key events during neural development and neuritogenesis. Further exploration is warranted to elucidate the specific molecular mechanisms and downstream pathways through which CSPG5 contributes to these processes.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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