Tenascin/Tnc protein, Human (HEK293, His)

Cat. No.:	HY-P700833
Synonyms:	TN; Hexabrachion; Tenascin-C; TN-C; TNC; Hxb
Species:	Human
Source:	HEK293
Accession:	P24821-1 (G23-S621)
Gene ID:	3371
Molecular Weight:	66-75 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 μm filtered solution of 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 TNC protein, an extracellular matrix protein, plays a crucial role in guiding migrating neurons and axons during development, contributing to processes such as synaptic plasticity and neuronal regeneration. It facilitates neurite outgrowth from cortical neurons grown on a monolayer of astrocytes, indicative of its involvement in the intricate cellular interactions within the nervous system. Acting as a ligand for integrins alpha-8/beta-1, alpha-9/beta-1, alpha-V/beta-3, and alpha-V/beta-6, TNC establishes molecular connections essential for cellular communication and signaling. In the context of tumors, TNC stimulates angiogenesis by promoting the elongation, migration, and sprouting of endothelial cells. Structurally, TNC exists as a homohexamer, with a potential homotrimer formation in the triple coiled-coil region, further stabilized by disulfide rings at both ends. This versatile protein also interacts with CSPG4, indicating its involvement in diverse cellular and molecular processes across different biological contexts.

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