

## Tenascin/Tnc protein, Mouse (His-Myc, Solution)

Cat. No.:	HY-P700002A
Synonyms:	Tenascin; TN; Hexabrachion; Tenascin-C (TN-C)
Species:	Mouse
Source:	HEK293
Accession:	Q80YX1 (G1884-N2099)
Gene ID:	21923
Molecular Weight:	Approximately 27 kDa

### PROPERTIES

AA Sequence	<p>G L L Y P F P R D C      S Q A M L N G D T T      S G L Y T I Y I N G      D K T Q A L E V Y C</p> <p>D M T S D G G G W I      V F L R R K N G R E      D F Y R N W K A Y A      A G F G D R R E E F</p> <p>W L G L D N L S K I      T A Q G Q Y E L R V      D L Q D H G E S A Y      A V Y D R F S V G D</p> <p>A K S R Y K L K V E      G Y S G T A G D S M      N Y H N G R S F S T      Y D K D T D S A I T</p> <p>N C A L S Y K G A F      W Y K N C H R V N L      M G R Y G D N N H S      Q G V N W F H W K G</p> <p>H E Y S I Q F A E M      K L R P S N</p>
Biological Activity	Measured by the ability of the immobilized protein to block Fibronectin-mediated adhesion of NIH-3T3 mouse embryonic fibroblast cells. Tenascin immobilized at 0.8 µg/mL, in the presence of 0.1 µg/mL human Fibronectin, will block approximately 54.01% NIH-3T3 cell adhesion (5×10 <sup>4</sup> cells/well, 100 µL/well).
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4, 20% Glycerol.
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	The Tenascin/Tnc protein, an extracellular matrix protein, assumes a critical role in guiding migrating neurons and axons during development, as well as contributing to synaptic plasticity and neuronal regeneration. It not only promotes neurite outgrowth in cultured neurons but also may play a role in supporting the growth of epithelial tumors, underscoring its
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diverse functional implications. Serving as a ligand for integrins ITGA8:ITGB1, ITGA9:ITGB1, ITGAV:ITGB3, and ITGAV:ITGB6, Tenascin/Tnc establishes molecular interactions essential for cellular communication and signaling. In the context of tumors, it stimulates angiogenesis by facilitating the elongation, migration, and sprouting of endothelial cells. Structurally, Tenascin/Tnc exists as a homohexamer with a potential homotrimer formation in the triple coiled-coil region, further stabilized by disulfide rings at both ends. The interaction with CSPG4 suggests its involvement in intricate cellular and molecular processes across diverse biological contexts.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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