Tenascin/Tnc protein, Mouse (His-Myc)

Cat. No.:	HY-P700002
Synonyms:	Tenascin; TN; Hexabrachion; Tenascin-C (TN-C)
Species:	Mouse
Source:	HEK293
Accession:	Q80YX1 (G1884-N2099)
Gene ID:	21923
Molecular Weight:	27-31 kDa

PROPERTIES

AA Sequence	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 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 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 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 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 H E Y S I Q F A E M K L R P S N
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 55.14% NIH-3T3 cell adhesion (5×10^4 cells/well, 100 μL/well).
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm sterile filtered 10 mM Tris-HCl,1 mM EDTA, 6% Trehalose, pH 8.0 or 50 mM Tris-HCL, 300 mM NaCL, pH 7.4,10% Glycerol or PBS, 6% Trehalose, pH 7.4.
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 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 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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