TB-500 PROTOCOL

Purpose: Synthetic Thymosin Beta-4 fragment used to accelerate soft-tissue repair, enhance connective-tissue resilience, **and support systemic recovery signaling**
It doesn't "heal" tissue directly — it restores the internal signaling environment that allows healing to happen everywhere

What it is

TB-500 is a synthetic fragment of Thymosin Beta-4, a naturally occurring intracellular peptide involved in actin regulation, cell migration, and tissue repair. Unlike localized repair peptides, TB-500 functions systemically, influencing repair signaling across muscle, tendon, fascia, vascular tissue, and connective structures throughout the body.

Results:Clinically, TB-500 supports improved recovery speed, reduced stiffness, and improved tissue resilience following strain, injury, or high physical load. Patients often present with improved mobility, less compensatory pain, and more durable recovery when TB-500 is used as a recovery foundation.

Mechanism: TB-500 works by modulating actin dynamics inside cells, which enables cell movement, tissue remodeling, and coordinated repair signaling. Rather than forcing inflammation up or down, it improves cellular communication, angiogenesis, and structural re-organization so damaged tissue can repair efficiently and correctly.

Axis: Recovery / Tissue Repair

Vial Composition

Component	Amount
TB4	10 mg
Total per vial	**10 mg**
Reconstitution: bacteriostatic water	2 mL
Final concentration: mg/mL (total peptide/ml)	5.0 mg/mL

Dosing Protocol

Parameter	Specification
Injection timing	Morning (Fasted)
Dose (total) [1-5mg]	**2.00 mg**
TB4	2.00 mg
Injection volume	0.4 mL (≈40 insulin units)
Frequency: days/week	7
	IM/SubQ or injury

Protocol Length

	Time Frame
Total duration: weeks	12
Active dosing days: days	84
Vials:	16.8

Supply Calculation

Item	Quantity
Total peptide required	168 mg
Vials required	17 vials (10 mg each)
Insulin syringes	84
BAC water	34 mL (recommended 4-10 mL vials

For educational and research reference only. Not intended for diagnosis, treatment, or medical advice.