



# Matrix BioLabs

Peptides

## TB-500 10mg

### Overview

TB-500 (Thymosin Beta-4 fragment) is a synthetic peptide that mimics a key active portion of the naturally occurring Thymosin Beta-4 protein. It is primarily researched for its regenerative, healing, and anti-inflammatory properties. It is commonly studied for accelerating recovery from injuries to muscles, tendons, ligaments, and other soft tissues, as well as promoting flexibility and tissue repair.

### Benefits

Key benefits include faster wound healing, reduced inflammation, improved muscle and tendon recovery, enhanced flexibility and range of motion, and support for new blood vessel formation (angiogenesis). It is frequently researched in the context of sports injuries, chronic pain, and post-injury rehabilitation due to its role in cellular migration and tissue regeneration.

### Dosage

250–750 mcg per day via subcutaneous injection. This daily micro-dosing approach aligns with conservative protocols for consistent tissue support, often used for 4–8 weeks depending on research goals.

### Reconstitution

Add 3ml of BAC water. This yields approximately 3.33 mg/ml concentration.

- 250 mcg dose = 7.5 units on a U-100 insulin syringe
  - 750 mcg dose = 22.5 units on a U-100 insulin syringe
- Store the reconstituted solution in the refrigerator and follow standard stability guidelines.