NEW-U
RESEARCH COMPOUNDS

CERTIFICATE OF ANALYSIS

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RECOVERY

TB-500

Thymosin Beta-4 Fragment (Ac-LKKTETQ)

Synthetic Tb4 active fragment. Cardiovascular repair, anti-inflammatory, BPC-157 stack partner.

MECHANISM	DOSAGE	HALF-LIFE	FORMAT
Actin regulation, cell migration, anti-inflammatory cytokine modulation	2–2.5 mg twice weekly SC	~3–4 days	Lyophilised powder

BATCH	LOT	CAS	FORMULA	ISSUED	RETEST
NU-TB--8638	179638	77591-33-4	C38H68N10O13	2025-08-18	2026-08-18

OVERVIEW

TB-500 is a synthetic analogue of the actin-binding domain of thymosin beta-4 (Tb4), a ubiquitous intracellular actin-sequestering peptide. It promotes cell migration and proliferation, upregulates actin assembly, and has demonstrated significant cardiac and skeletal muscle repair in preclinical studies. TB-500 covers complementary pathways to BPC-157, particularly cardiovascular repair and systemic anti-inflammatory action.

MECHANISM OF ACTION

Actin regulation, cell migration, anti-inflammatory cytokine modulation

KEY RESEARCH BENEFITS

- Cardiovascular tissue repair and regeneration
- Reduces systemic and local inflammation
- Enhances flexibility and reduces joint pain
- Promotes hair-follicle regeneration
- Synergistic with BPC-157 for injury recovery

RESEARCH NOTES

Animal models demonstrate improved cardiac function post-MI, accelerated wound healing, and reduced inflammatory markers. Phase II human trial in dystrophic epidermolysis bullosa completed (NCT01248065).

STORAGE & STABILITY

Lyophilised: -20 °C, stable >=24 months. Reconstituted: 2–8 °C, use within 14 days.

THIRD-PARTY HPLC VERIFIED

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