

TB-500 (Thymosin β 4 Fragment)

Specification Sheet

TB-500 (Thymosin β 4 Fragment) is a synthetic peptide fragment corresponding to residues 17–23 of Thymosin Beta-4. This specification sheet provides reference information on product identity, molecular characteristics, quality specifications, storage, handling, and research applications.

Product Identification

Product Name: TB-500 (Thymosin β 4 Fragment)

Alternative Name: Thymosin Beta-4 Fragment 17–23

Peptide Sequence: Ac-Leu-Lys-Lys-Thr-Glu-Thr-Gln-OH

One-Letter Sequence: Ac-LKKTETQ

CAS Number: 885340-08-9

Molecular Formula: C₃₈H₆₈N₁₀O₁₄

Molecular Weight: 889.01 g/mol

Peptide Length: 7 amino acid residues

Product Type: Synthetic peptide

Appearance: Lyophilized powder

Product Specifications

Parameter	Specification
Identity	TB-500 / Thymosin β 4 Fragment 17 – 23
Sequence	Ac-LKKTETQ
Purity	Refer to lot-specific Certificate of Analysis (COA)
Molecular Weight	889.01 g/mol
Molecular Formula	C ₃₈ H ₆₈ N ₁₀ O ₁₄
Physical Form	Lyophilized powder
Analytical Method	HPLC / MS, as applicable
Documentation	Lot-specific COA available
Intended Use	Research use only

Quality Control

TB-500 (Thymosin β 4 Fragment) is supplied with lot-specific quality documentation where applicable. Analytical testing may include HPLC for purity assessment and mass spectrometry for identity confirmation.

Because analytical results can vary by production batch, actual purity and test results should be verified using the Certificate of Analysis supplied for the specific lot.

Storage and Handling

Store TB-500 (Thymosin β 4 Fragment) according to the storage conditions stated on the product label and lot-specific Certificate of Analysis.

For laboratory handling, minimize unnecessary exposure to moisture and repeated temperature fluctuations. Reconstituted peptide stability depends on solvent, concentration, temperature, and experimental conditions.

Always refer to the applicable product documentation before use.

Research Applications

TB-500 (Thymosin β 4 Fragment) is supplied as a research material for laboratory and scientific research applications.

Researchers investigating Thymosin Beta-4 and related peptide fragments may use TB-500 as a reference or experimental research material where appropriate for their validated laboratory protocols.

Documentation

Lot-specific documentation may include:

- Certificate of Analysis (COA)
- HPLC analytical data
- Mass spectrometry data
- Product specification information
- Safety documentation, where applicable

For batch-specific analytical information, please request the Certificate of Analysis corresponding to the product lot.

Important Notice

This product is intended for research use only. It is not intended for human consumption, medical use, diagnostic use, or therapeutic use.

For product availability, documentation, bulk quantities, or technical inquiries, please visit the TB-500 product page or contact 52YM.

TB-500 Product Page:

<https://52ym.com/products/tb-500-thymosin-4-fragment/#quote>