TB-500 / Thymosin beta-4

Synonyms: Timbetasin; T-beta-4

TISSUE / RECOVERY

Catalog no.: _____ Pack size: _____

CAS NUMBER	MOLECULAR FORMULA	MOLECULAR WEIGHT	PUBCHEM CID
77591-33-4	$C_{212}H_{350}N_{56}O_{78}S$	4963 g/mol	16132341

AMINO ACID SEQUENCE / STRUCTURE

Ac-Ser-Asp-Lys-Pro-Asp-Met-Ala-Glu-Ile-Glu-Lys-Phe-Asp-Lys-Ser-Lys-Leu-Lys-Lys-Thr-Glu-Thr-Gln-Glu-Lys-Asn-Pro-Leu-Pro-Ser-Lys-Glu-Thr-Ile-Glu-Gln-Glu-Lys-Gln-Ala-Gly-Glu-Ser-OH

> Specification note. The data on this sheet is for FULL-LENGTH thymosin beta-4 (43 residues). Material sold under the name 'TB-500' is frequently the shorter active fragment Ac-Leu-Lys-Lys-Thr-Glu-Thr-Gln-OH, which has a different formula and mass. Confirm with your manufacturer which molecule you receive and correct this sheet before publishing it.

PHYSICAL FORM AND PACKAGING

Supplied as a lyophilised powder in a sealed glass vial under an inert headspace, fill weight as stated on the vial label and on the lot Certificate of Analysis. Vials are labelled with product name, fill weight, lot number and research-use-only status.

PURITY AND IDENTITY

Lot-specific. Reverse-phase HPLC purity and mass-spectrometric identity results, with the testing laboratory named, are issued on the Certificate of Analysis accompanying each shipment and are available on request before purchase. No purity figure is quoted on this sheet because purity is a property of a lot, not of a catalog item.

STORAGE, STABILITY AND HANDLING

Store the sealed lyophilised vial as stated on the lot Certificate of Analysis. Protect from light and moisture. Allow vials to reach ambient temperature before opening to avoid condensation. Reconstitution solvent, concentration and post-reconstitution storage are determined by the receiving laboratory under its own validated procedures; Aletheix provides no reconstitution or use protocol of any kind.

DOCUMENTATION SUPPLIED

Lot Certificate of Analysis, third-party laboratory report reference, lot and batch traceability record, and a research-use-only declaration. Safety data sheet available on request. Purchase orders, quotations and W-9 available for institutional accounts.

1. Molecular identity data for TB-500 / Thymosin beta-4: PubChem CID 16132341, U.S. National Library of Medicine — https://pubchem.ncbi.nlm.nih.gov/compound/16132341

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