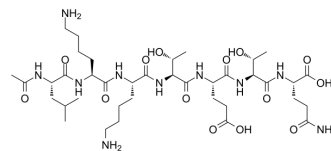


## TB500

|                      |   |
|----------------------|---|
| Cat. No.:            | HY-P0170  |
| CAS No.:             | 885340-08-9   |
| Molecular Formula:   | C <sub>38</sub> H <sub>68</sub> N <sub>10</sub> O <sub>14</sub> |
| Molecular Weight:    | 889.01  |
| Sequence:            | N-Acetyl-Leu-Lys-Lys-Thr-Glu-Thr-Gln                            |
| Sequence Shortening: | Ac-LKKTETQ  |
| Target:              | Others  |
| Pathway:             | Others  |
| Storage:             | Sealed storage, away from moisture and light, under nitrogen    |
|                      | Powder    -80°C    2 years                                      |
|                      | -20°C    1 year   |



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

## SOLVENT & SOLUBILITY

### In Vitro

H<sub>2</sub>O : 250 mg/mL (281.21 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent       |  | Mass      |           |            |
|---------------------------|---------------|--|-----------|-----------|------------|
|                           | Concentration |  | 1 mg      | 5 mg      | 10 mg      |
|                           | 1 mM          |  | 1.1248 mL | 5.6242 mL | 11.2485 mL |
|                           | 5 mM          |  | 0.2250 mL | 1.1248 mL | 2.2497 mL  |
|                           | 10 mM         |  | 0.1125 mL | 0.5624 mL | 1.1248 mL  |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

TB500 is a synthetic version of an active region of thymosin  $\beta_4$ . TB500 is claimed to promote endothelial cell differentiation, angiogenesis in dermal tissues, keratinocyte migration, collagen deposition and decrease inflammation<sup>[1]</sup>.

## REFERENCES

[1]. Emmie N M Ho, et al. Doping control analysis of TB-500, a synthetic version of an active region of thymosin  $\beta_4$ , in equine urine and plasma by liquid chromatography-mass spectrometry. J Chromatogr A. 2012 Nov 23;1265:57-69.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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