

Thymosin beta 4 Recombinant Protein



RPPB1379

Product Information Protein Information

Product SKU:

RPPB1379

Accession:

P62328

Protein description:

Thymosin b4 is a 43 amino acid peptide which is regarded as the main intracellular G-actin sequestering peptide. It has a molecular weight of 4963.55 Da, and its molecular formula is: C₂₁₂H₃₅₀N₅₆O₇₈S₁. Extracellular Thymosin b4 may contribute to physiological processes such as angiogenesis, wound healing, and regulation of inflammation.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Thymosin beta-4, T beta 4, Fx , TB4X, PTMB4, TMSB4.

Formulation:

The protein (1mg/ml) was lyophilized with no additives.

Purity:

Greater than 98.0% as determined by RP-HPLC.

Solubility:

It is recommended to reconstitute the lyophilized Thymosin beta-4 in sterile 18MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Thymosin b4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution T beta 4 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence:

Thymosin b4 has an a.a. sequence of 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.