

Thymosin a1 Acetate

Item Number rAP-2603

Synonyms

Description Thymosin a1 acetate, also known as thymalfasin has immunoregulatory properties enhancing immune functions. Thymosin a1 has a molecular formula of C₁₂₉H₂₁₅N₃₃O₅₅ a.a. sequence of Ac-Ser-Asp-Ala-Ala-Val-Asp-Thr-Ser-Ser-Glu-Ile-Thr-Thr-Lys-Asp-Leu-Lys-Glu-Lys-Lys-Glu-Val-Val-Glu-Glu-Ala-Glu-Asn-

Uniprot Accession Number P06454

Amino Acid Sequence

Source

Physical Appearance and Stability Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Thymosin a1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Thymalfasin 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.

Formulation and Purity The protein (1mg/ml) was lyophilized with no additives. Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Application

Solubility It is recommended to reconstitute the lyophilized Thymosin a1 in sterile 18MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Biological Activity

Shipping Format and Condition Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**