

Synthetic Thymopentin

Catalog No.	CRT142A	Quantity:	25 mg
	CRT142B		100 mg
	CRT142C		1 g

Description: Thymopentin, also known as TP-5, is a synthetic pentapeptide which is the active site of the naturally occurring hormone thymopoietin with immunomodulating properties (corresponding to the amino acids 32-36 of thymopoietin). Thymopentin enhances the production of thymic T cells and may help restore immunocompetence in immunosuppressed subjects. This agent also augments the effects of ionizing radiation by arresting cancer cells in the G2/M phase of the cell cycle. Thymopentin has a molecular formula of $C_{30}H_{49}N_9O_9$ H-Arg-Lys-Asp-Val-Tyr-OH.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Molecular Weight: 679.8 Dalton

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

Purity: Greater than 99.0% as determined by
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Reconstitution: It is recommended to reconstitute the lyophilized Thymopentin in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Storage & Stability: Lyophilized Thymopentin although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution TP-5 should be stored at 2-4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid freeze-thaw cycles.**

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