

32-2089: TP 5 Protein

Description

Source : Thymopentin has a molecular formula of $C_{30}H_{49}N_9O_9$, H-Arg-Lys-Asp-Val-Tyr-OH having a Mw of 679.8 Dalton. 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.

Product Info

Amount :	100 mg
Purification :	Greater than 99.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The protein (1 mg/ml) was lyophilized with no additives.
Storage condition :	Lyophilized Thymopentin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TP-5 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.

Application Note

It is recommended to reconstitute the lyophilized Thymopentin in sterile $18\text{M}\Omega\cdot\text{cm}$ H₂O not less than $100\text{ }\mu\text{g/ml}$, which can then be further diluted to other aqueous solutions.

