

## 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

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| <b>Amount :</b>            | 100 mg   |
| <b>Purification :</b>      | Greater than 99.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.   |
| <b>Content :</b>           | The protein (1 mg/ml) was lyophilized with no additives.   |
| <b>Storage condition :</b> | Lyophilized Thymopentin although stable at room temperature for 3 weeks, should be stored desiccated below $-18^{\circ}\text{C}$ . Upon reconstitution TP-5 should be stored at $4^{\circ}\text{C}$ between 2-7 days and for future use below $-18^{\circ}\text{C}$ .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  $18\text{M}\Omega\cdot\text{cm}$  H<sub>2</sub>O not less than  $100\text{ }\mu\text{g/ml}$ , which can then be further diluted to other aqueous solutions.

