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## Product Data Sheet

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Product Name: TP 5  
Cat. No.: GP21315  
Batch No.: 1

### Product Data

Purity	>98%	Source	
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Solubility	It is recommended to reconstitute the lyophilized Thymopentin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein (1mg/ml) was lyophilized with no additives.		

### Introduction

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 G<sub>2</sub>/M phase of the cell cycle.

### Stability

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.

### Background

Thymopentin has a molecular formula of C<sub>30</sub>H<sub>49</sub>N<sub>9</sub>O<sub>9</sub>, Arg-Lys-Asp-Val-Tyr-OH having an Mw of 679.8 Dalton.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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