

## TP 5

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

Catalog #:HOPS-248

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

For research use only.

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

**Formulation:**

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

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Thymopentin in sterile 18M-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**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 G2/M phase of the cell cycle.

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