

TP 5

Description:Thymopentin has a molecular formula of C₃₀H₄₉N₉O₉, 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 H₂O 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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