

## Thymopentin - Purified

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No.:</b>   | AR10245PU-S                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Quantity:</b>      | 25 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration:</b> | 1.0 mg/ml (prior to lyophil.)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Background:</b>    | 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. |
| <b>Source:</b>        | Synthetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Format:</b>        | <b>State:</b> Sterile Filtered White lyophilized (freeze-dried) powder without additives<br><b>Purity:</b> >99.0% as determined by RP-HPLC and SDS-PAGE analysis<br><b>Reconstitution:</b> Restore in sterile 18MΩ·cm <sup>-1</sup> H <sub>2</sub> O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                          |
| <b>Description:</b>   | Thymopentin has a Molecular formula of C <sub>30</sub> H <sub>49</sub> N <sub>9</sub> O <sub>9</sub><br><b>AA Sequence:</b><br>H-Arg-Lys-Asp-Val-Tyr-OH                                                                                                                                                                                                                                                                                                                              |
| <b>Storage:</b>       | Prior to reconstitution store at RT for one month or desiccated below -18°C.<br>Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.                                                                                                                          |