



LKT Laboratories, Inc.

Thymopentin Acetate

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID T3094

CAS No. 69558-55-0

Chemical Name

Synonym TP-5 Acetate

Formula $C_{30}H_{49}N_9O_9 \cdot CH_3COOH$

Formula Wt. 679.8

Melting Point

Purity $\geq 95\%$

Solubility Freely soluble in water.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Thymopentin is a five amino acid peptide fragment of thymopoietin that exhibits immunostimulatory and anticancer activities. Thymopentin decreases iNOS activity in the treatment of Sezary Syndrome, a severe form of lymphoma. In leukemia cells, thymopentin inhibits proliferation and colony formation and induces differentiation. In macrophages, thymopentin increases pro-inflammatory cytokine secretion, activation of NF- κ B, production of HSP72, and signaling by JNK. Thymopentin shows clinical benefit when used as an adjuvant, improving the response rate in subjects administered hepatitis B vaccines.

Arg-Lys-Asp-Val-Tyr

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T3094	10 mg	\$106.10
T3094	50 mg	\$458.70
T3094	1 g	\$1693.50

References Patruno A, Tosco P, Borretto E, et al. Thymopentin down-regulates both activity and expression of iNOS in blood cells of Sézary syndrome patients. *Nitric Oxide*. 2012 Oct 15;27(3):143-9. PMID: 22721692.

Lunin SM, Glushkova OV, Khrenov MO, et al. Thymus peptides regulate activity of RAW 264.7 macrophage cells: inhibitory analysis and a role of signal cascades. *Expert Opin Ther Targets*. 2011 Dec;15(12):1337-46. PMID: 22148922.

Fan YZ, Chang H, Yu Y, et al. Thymopentin (TP5), an immunomodulatory peptide, suppresses proliferation and induces differentiation in HL-60 cells. *Biochim Biophys Acta*. 2006 Oct;1763(10):1059-66. PMID: 16952408.

Fabrizi F, Dixit V, Martin P. Meta-analysis: the adjuvant role of thymopentin on immunological response to hepatitis B virus vaccine in end-stage renal disease. *Aliment Pharmacol Ther*. 2006 Jun 1;23(11):1559-66. PMID: 16696803.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.