



**LKT Laboratories, Inc.**  
**Thymosin  $\alpha$ -1 Acetate**

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**Product Information**

**Product ID** T3097

**CAS No.** 62304-98-7

**Chemical Name**

**Synonym** Thymalfasin acetate

**Formula** C<sub>129</sub>H<sub>215</sub>N<sub>33</sub>O<sub>55</sub>

**Formula Wt.** 3108.3

**Melting Point**

**Purity**  $\geq$ 95%

**Solubility** Soluble in water (1 mg/mL).

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Thymosin  $\alpha$ -1 is an endogenous immunomodulatory peptide involved in hormone regulation. Thymosin  $\alpha$ -1 is clinically used to increase efficacy of antiviral agents. Production of thymosin  $\alpha$ -1 is regulated by melatonin signaling.

Ac-Ser-Asp-Ala-Ala-Val-Asp-  
Thr-Ser-Ser-Glu-Ile-Thr-Thr-  
Lys-Asp-Leu-Lys-Glu-Lys-Lys-  
Glu-Val-Val-Glu-Glu-Ala-Glu-  
Asn

**Bulk quantities available upon request**

<b>Product ID</b>	<b>Size</b>
T3097	1 mg
T3097	10 mg
T3097	50 mg

**References** Lai CL, Wu PC. Antiviral treatment for chronic hepatitis B. Hong Kong Med J. 1997 Sep;3(3):289-296. PMID: 11847374.

Molinero P, Soutto M, Benot S, et al. Melatonin is responsible for the nocturnal increase observed in serum and thymus of thymosin alpha1 and thymulin concentrations: observations in rats and humans. J Neuroimmunol. 2000 Mar 1;103(2):180-8. PMID: 10696913.

Wolfe MW, Vakharia DD, Wise TH, et al. Characterization of secretion of thymosin alpha 1 and thymosin beta 4 during prepuberty, estrus and pregnancy in the bovine female. Domest Anim Endocrinol. 1989 Jan;6(1):71-8. PMID: 2917466.

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