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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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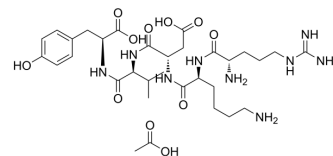
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Thymopentin acetate

Cat. No.:	HY-N7122A
CAS No.:	89318-88-7
Molecular Formula:	C ₃₂ H ₅₃ N ₉ O ₁₁
Molecular Weight:	739.82
Sequence:	Arg-Lys-Asp-Val-Tyr
Sequence Shortening:	RKDVY
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (33.79 mM; Need ultrasonic)				
	H ₂ O : 25 mg/mL (33.79 mM; ultrasonic and heat to 60°C)				
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	1.3517 mL	6.7584 mL	13.5168 mL
		5 mM	0.2703 mL	1.3517 mL	2.7034 mL
10 mM		0.1352 mL	0.6758 mL	1.3517 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.67 mg/mL (2.26 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (2.26 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (2.26 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Thymopentin acetate is a biologically active peptide secreted mainly by the epithelial cells of thymic cortex and medulla. Thymopentin acetate is an effective immunomodulatory agent with a short plasma half-life of 30 seconds. Thymopentin acetate enhances the generation of T-cell lineage derived from human embryonic stem cells (hESCs) ^{[1][2]} .
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In Vitro

Thymopentin acetate enhances the generation of T-cell lineage derived from hESCs in vitro ^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Zhu MX, et al. Thymopentin enhances the generation of T-cell lineage derived from human embryonic stem cells in vitro. Exp Cell Res. 2015 Feb 15;331(2):387-98.
- [2]. Lin S, et al. Novel strategy for immunomodulation: Dissolving microneedle array encapsulating thymopentin fabricated by modified two-step molding technology. Eur J Pharm Biopharm. 2018 Jan;122:104-112.
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Caution: Product has not been fully validated for medical applications. For research use only.

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