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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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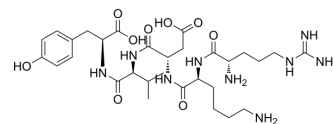
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Thymopentin

Cat. No.:	HY-N7122
CAS No.:	69558-55-0
Molecular Formula:	C ₃₀ H ₄₉ N ₉ O ₉
Molecular Weight:	679.77
Sequence:	Arg-Lys-Asp-Val-Tyr
Sequence Shortening:	RKD VY
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	H ₂ O : 50 mg/mL (73.55 mM; Need ultrasonic)				
	DMSO : 20.83 mg/mL (30.64 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	1.4711 mL	7.3554 mL	14.7109 mL
		5 mM	0.2942 mL	1.4711 mL	2.9422 mL
10 mM		0.1471 mL	0.7355 mL	1.4711 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: ≥ 2.08 mg/mL (3.06 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.06 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.08 mg/mL (3.06 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

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

Thymopentin 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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