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Produktinformation



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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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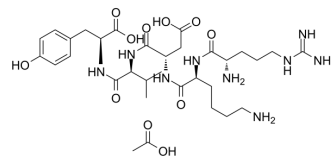
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Thymopentin acetate

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)
 H₂O : 25 mg/mL (33.79 mM; ultrasonic and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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
- 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]}.

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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