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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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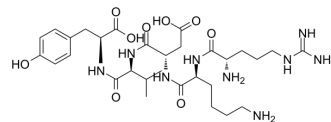
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Thymopentin

| | |
|----------------------|---|
| 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: | 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

H₂O : 50 mg/mL (73.55 mM; Need ultrasonic)
 DMSO : 20.83 mg/mL (30.64 mM; ultrasonic and warming and heat to 60°C)

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

- 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
- 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
- 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]}.

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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