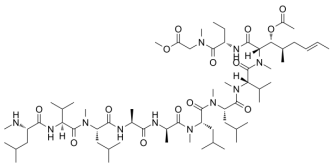
Cyclosporin A-Derivative 1 Free base

Cat. No.:	HY-P1355A
CAS No.:	286852-20-8
Molecular Formula:	$C_{65}H_{117}N_{11}O_{14}$
Molecular Weight:	1276.69
Sequence:	Leu-Val-Leu-Ala-{d-Ala}-Leu-Leu-Val-{Aaa}-{Abu}-{Sar}
Sequence Shortening:	LVLA-{d-Ala}-LLV-{Aaa}-{Abu}-{Sar}
Target:	Others
Pathway:	Others
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 : 100 mg/mL (78.33 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.7833 mL	3.9164 mL	7.8328 mL
5 mM	0.1567 mL	0.7833 mL	1.5666 mL
10 mM	0.0783 mL	0.3916 mL	0.7833 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (1.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cyclosporin A-Derivative 1 (Free base) is a crystalline intermediate derived from the opening of cyclosporin A extracted from patent WO 2013167703 A1. Cyclosporin A is an immunosuppressive agent which can bind to the cyclophilin and inhibit calcineurin.

In Vitro

Cyclosporin A-Derivative 1 is a non-immunosuppressive Cyclosporin A derivative. The cyclosporin is acylated on the butenyl-methyl-threonine side chain and then subjected to a ring-opening reaction (the ring opens between the sarcosine and the N-methyl-leucine residues). Cyclosporin A-Derivative 1 is a linear peptide intermediate[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fabrice Gallou, et al. Process for the manufacture of cyclic undecapeptides. WO 2013167703 A1.

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