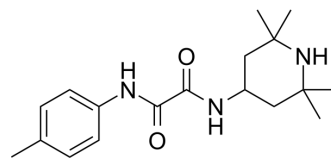


YYA-021

Cat. No.:	HY-100039		
CAS No.:	144217-65-2		
Molecular Formula:	C ₁₈ H ₂₇ N ₃ O ₂		
Molecular Weight:	317.43		
Target:	HIV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (157.52 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1503 mL	15.7515 mL	31.5030 mL
	5 mM	0.6301 mL	3.1503 mL	6.3006 mL
	10 mM	0.3150 mL	1.5752 mL	3.1503 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: ≥ 2.5 mg/mL (7.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (7.88 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

YYA-021 is a small-molecule CD4 mimic that inhibits HIV entry, with high anti-HIV activity and low cytotoxicity^{[1][2]}.

REFERENCES

- [1]. Mizuguchi T, et al. A minimally cytotoxic CD4 mimic as an HIV entry inhibitor. *Bioorg Med Chem Lett*. 2016 Jan 15;26(2):397-400.

Caution: Product has not been fully validated for medical applications. For research use only.

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