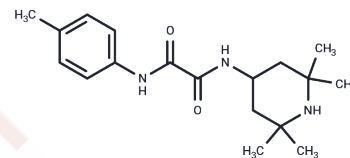


YYA-021

Chemical Properties

CAS No. : 144217-65-2
 Formula: C₁₈H₂₇N₃O₂
 Molecular Weight: 317.43
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	YYA-021 inhibits HIV entry, with high anti-HIV activity and low cytotoxicity.
Targets(IC50)	HIV Protease, gp120/CD4
In vitro	YYA-021 enhances the neutralization sensitivity of simian-human immunodeficiency virus (SHIV) carrying the envelope from the clade B clinical human immunodeficiency virus type 1 (HIV-1) isolate MNA. [1]
In vivo	In rats and rhesus macaques, YYA-021 (i.v.) shows moderate half-lives, wide tissue distribution and relatively high distribution volumes. [2]

Solubility Information

Solubility	DMSO: 11 mg/mL (34.65 mM), Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.3 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1503 mL	15.7515 mL	31.503 mL
5 mM	0.6301 mL	3.1503 mL	6.3006 mL
10 mM	0.315 mL	1.5752 mL	3.1503 mL
50 mM	0.063 mL	0.315 mL	0.6301 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Otsuki H, et al. J Gen Virol. 2013, 94(Pt 12), 2710-2716.

Hashimoto C, et al. Bioorg Med Chem. 2013, 21(24), 7884-7889.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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