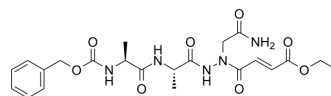


RR-11a analog

Cat. No.:	HY-112205A		
CAS No.:	685543-66-2		
Molecular Formula:	C ₂₂ H ₂₉ N ₅ O ₈		
Molecular Weight:	491.49		
Target:	Parasite; Legumain		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (254.33 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	2.0346 mL	10.1731 mL
	5 mM	0.4069 mL	2.0346 mL	
	10 mM	0.2035 mL	1.0173 mL	2.0346 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.23 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.23 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.23 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	RR-11a analog is a potent and irreversible inhibitor of <i>Schistosoma mansoni</i> legumain, with an IC ₅₀ of 31 nM. RR-11a analog is an aza-Asn derivative and aza-peptide Michael acceptor ^{[1][2]} .
IC ₅₀ & Target	IC ₅₀ : 31 ± 25 nM (<i>Schistosoma mansoni</i> legumain) ^[2]
In Vivo	RR-11a analog has a half-life of 3-10 min ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Immunol Res. 2022 Apr 12;canimm.0559.2021.
- ACS Appl Nano Mater. July 23, 2021.

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REFERENCES

- [1]. Ekici OD, et al. Aza-peptide Michael acceptors: a new class of inhibitors specific for caspases and other clan CD cysteine proteases. J Med Chem. 2004 Apr 8;47(8):1889-92.
- [2]. Götz MG, et al. Aza-peptidyl Michael acceptors. A new class of potent and selective inhibitors of asparaginyl endopeptidases (legumains) from evolutionarily diverse pathogens. J Med Chem. 2008 May 8;51(9):2816-32.
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Caution: Product has not been fully validated for medical applications. For research use only.

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