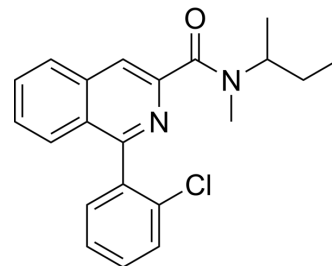


PK 11195

Cat. No.:	HY-19567	
CAS No.:	85532-75-8	
Molecular Formula:	C ₂₁ H ₂₁ ClN ₂ O	
Molecular Weight:	352.86	
Target:	Parasite	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (70.85 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8340 mL	14.1699 mL	28.3399 mL
		5 mM	0.5668 mL	2.8340 mL	5.6680 mL
		10 mM	0.2834 mL	1.4170 mL	2.8340 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 (5.89 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.89 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	PK 11195 (RP 52028) is a ligand of translocator protein (TSPO), which targets Leishmania chemotherapy, with IC ₅₀ s of 14.2 μM, 8.2 μM, 3.5 μM for <i>L. amazonensis</i> , <i>L. major</i> and <i>L. braziliensis</i> , respectively.
IC₅₀ & Target	Leishmania
In Vitro	Median IC ₅₀ values for PK 11195 are 14.2 μM for <i>L. amazonensis</i> , 8.2 μM for <i>L. major</i> , and 3.5 μM for <i>L. braziliensis</i> . The selective index value for <i>L. amazonensis</i> is 13.7, indicating the safety of PK 11195 for future testing in mammals. Time- and dose-dependent reductions in the percentage of infected macrophages, the number of parasites per infected macrophage, and the number of viable intracellular parasites are observed. Electron microscopy reveals some morphological alterations suggestive of autophagy. Interestingly, MCP-1 and superoxide levels are reduced in <i>L. amazonensis</i> -infected macrophages treated with PK 11195 ^[1] .

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

CUSTOMER VALIDATION

- Exp Neurol. 2023 Sep 15;114542.
- J Inflamm. 2024 Apr 19;21(1):11.

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REFERENCES

[1]. Guedes CES, et al. In vitro evaluation of the anti-leishmanial activity and toxicity of PK-11195. Mem Inst Oswaldo Cruz. 2018 Feb 5;113(4):e170345.

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

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