Acloproxalap

Cat. No.:	HY-147240		
CAS No.:	1824609-67	-7	
Molecular Formula:	$C_{12}H_{14}N_{2}O$		
Molecular Weight:	202.25		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.9444 mL	24.7219 mL	49.4438 mL
		5 mM	0.9889 mL	4.9444 mL	9.8888 mL
		10 mM	0.4944 mL	2.4722 mL	4.9444 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo		one by one: 10% DMSO >> 40% PEC g/mL (12.36 mM); Clear solution	G300 >> 5% Tween-8) >> 45% saline	
		one by one: 10% DMSO >> 90% (20' g/mL (12.36 mM); Clear solution	% SBE-β-CD in saline)		

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Description	Acloproxalap is a quinoline-based aldehyde scavenger that can be used in studies of diseases with toxic aldehyde accumulation, such as inflammatory diseases of the eye and skin, respiratory diseases such as pneumonia, organ diseases, and viral infection-related syndromes ^{[1][2]} .
In Vivo	Acloproxalap (compound I-6) (100 or 200 mg/kg, i.p. or p.o., everyday, 6 days) can effectively improve inflammation of the colon in acute ulcerative colitis (UC) female Swiss Webster mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.Animal Model:Acute ulcerative colitis (UC) in female Swiss Webster mice ^[1]

N

OH

 NH_2

Dosage:	100 mg/kg, 200 mg/kg		
Administration:	Intraperitoneal injection for 1	100 mg/kg, oral gavage for 200 mg	/kg; everyday; 6 days
Result:	Inhibited weight loss in intraperitoneal injection mice significantly while there was no significant difference in the oral gavage group compared to the control group. Both significantly reduced colonic histopathological parameters.		
Animal Model:	Male non-naïve beagle dogs ^{[2}	2]	
Dosage:	3 mg/kg		
Administration:	Intravenous injection; once		
Result:	The pharmacokinetic parame	eters of Acloproxalap (compound	-1)
	Parameter	Acloproxalap (compound I-1)	
	t _{1/2}	1.82 h	
	T _{max}	0.518 h	
	Clearance	12.2 mL/kg/min	
	steady-state volume	1385 mL/kg	
	AUC _{0-t}	4103 ng/mL*h	
	AUC _{0⊠inf_obs}	4137 ng/mL*h	

Animal Model:	Male non-naïve beagle de	Male non-naïve beagle dogs ^[2]		
Dosage:	10 mg/kg	10 mg/kg		
Administration:	Oral gavage; once	Oral gavage; once		
Result:	The pharmacokinetic par	rameters of Acloproxalap (compound I-1)		
	Parameter	Acloproxalap (compound I-1)		
	t _{1/2}	3.02 h		
	T _{max}	0.518 h		
	C _{max}	3558 ng/mL		
	AUC _{0-t}	9361 ng/mL*h		

AUC _{0Øinf_obs}	9546 ng/mL*h		
BioA	75%		

REFERENCES

[1]. Susan Macdonald, et al. Treatment of inflammatory disorders. US20190105322

[2]. Todd Brady, et al. Pharmaceutical formulations and uses thereof. WO2021231792

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

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