
Product Data Sheet

Product Name: Acloproxalap

Cat. No.: GC68613

Chemical Properties

Cas. No. 1824609-67-7

Formula $C_{12}H_{14}N_2O$

M.Wt 202.25

Solubility DMSO : 100 mg/mL (494.44 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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]}.

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].

Animal Model: Acute ulcerative colitis (UC) in female Swiss Webster mice^[1]

Dosage: 100 mg/kg, 200 mg/kg

Administration: Intraperitoneal injection for 100 mg/kg, oral gavage for 200 mg/kg; everyday; 6 days

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

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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]

Dosage: 3 mg/kg

Administration: Intravenous injection; once

The pharmacokinetic parameters of Acloproxalap (compound I-1)

	Parameter	Acloproxalap (compound I-1)
	$t_{1/2}$	1.82 h
Result:	T_{max}	0.518 h
	Clearance	12.2 mL/kg/min
	steady-state volume	1385 mL/kg
	AUC_{0-t}	4103 ng/mL*h
	$AUC_{0-\infty_{obs}}$	4137 ng/mL*h

Animal Model: Male non-naïve beagle dogs^[2]

Dosage: 10 mg/kg

Administration: Oral gavage; once

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The pharmacokinetic parameters 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
$AUC_{0-\infty_{obs}}$	9546 ng/mL*h
BioA	75%

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

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

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