Antiparasitic agent-9

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®

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-151133 2516237-50-4 C ₁₈ H ₂₀ N ₆ O ₂ S 384.46 Parasite Anti-infection Please store the product under the recommended conditions in the Certificate of Analysis.	$ \begin{array}{c} $
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BIOLOGICAL ACTIV				
Description	Antiparasitic agent-9 (compound 4 antiparasitic activity against the hu		tent antiparasitic agent. Antipara	isitic agent-9 shows
IC ₅₀ & Target	Mite			
In Vivo	Antiparasitic agent-9 (compound 4 sigmodontis infection model ^[1] . Antiparasitic agent-9 (2 mg/kg (IV), brain exposure ^[1] . Pharmacokinetic Parameters of An	10 and 30 mg/kg (PO); once	e) shows a brain to plasma ratio o	
		PO (30 mg/kg)	PO (10 mg/kg)	IV (2 mg/kg)
	C _{max} (μM)	13.9	5.27 ± 0.83	
	T _{max} (h)	0.50	4.0 ± 2.8	
	$AUC_{0\text{-}inf}\left(\mu M{\cdot}h\right)$	121	68.1±NC	
	CL (mL/min/kg)			3.6 ± 0.22
	Vd ss (mL/kg)			0.74 ± 0.08
	F (%)		57	
	brain/plasma [b]/[p]	0.08		
	efflux ratio (ER)	12		
	MCE has not independently confirr	ned the accuracy of these n	nethods. They are for reference or	nly.

Product Data Sheet

Animal Model:	Female BALB/c mice (infected withL. sigmodontis, 6-8 weeks) ^[1]
Dosage:	15 mg/kg
Administration:	Orally, twice each day for 7 days
Result:	Showed a significant worm burden reduction of 59% at 15 mg/kg.
Animal Model:	Male CD-1 mouse (n = 4) ^[1]
Ammat Mouel.	
Dosage:	2 mg/kg (IV), 10 and 30 mg/kg (PO)
	2 mg/kg (IV), 10 and 30 mg/kg (PO) IV, PO, once (Pharmacokinetic Analysis)

REFERENCES

[1]. Hawryluk N, et al. Discovery of Substituted Di(pyridin-2-yl)-1,2,4-thiadiazol-5-amines as Novel Macrofilaricidal Compounds for the Treatment of Human Filarial Infections. J Med Chem. 2022 Aug 16.

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

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