## CRK12-IN-2

®

MedChemExpress

Cat. No.:HY-143322CAS No.:1990479-17-8Molecular Formula: $C_{23}H_{33}F_2N_5O_3S_2$ Molecular Weight:529.67Target:ParasitePathway:Anti-infectionStorage:Please store the prod Analysis.	uct under the recommended conditions in the Certificate of	NH2 O N H S O N H S C N N S C N N S C N N S C S N N S S C N S S C N S S S S
--	--	---

<b>BIOLOGICAL ACTIVI</b>	тү		
Description		an inhibitor of CRK12. CRK12-IN-2 shows poten <sub>0</sub> values of 3.2 and 0.08 nM. CRK12-IN-2 can be t	cy against Trypanosoma congolense and used for the research of animal trypanosomiasis
In Vivo	CRK12-IN-2 (10 mg/kg; s.c. o Pharmacokinetic Properties	nce daily for 4 days) effectively cures mice with of CRK12-IN-2 in Cattle <sup>[1]</sup> .	T. congolense- and T. vivax-infection <sup>[1]</sup> .
		Cattle IV 2 mg/kg	Cattle IM 10 mg/kg
	C <sub>lb</sub> (mL/min/kg	) 15±5	
	V <sub>dss</sub> (L/kg)	2.3±0.6	
	half-life (h)	4±2	
	AUC <sub>0-∞</sub> (ng·min/n	nL) 140000±40000	500000±30000
	C <sub>max</sub> (ng/mL)		1700±800
	T <sub>max</sub> (h)		1.3±0.6
	F (%)		73±6
	MCE has not independently	confirmed the accuracy of these methods. They	are for reference only.
	Animal Model:	Mice with T. congolense and T. vivax infectio	n <sup>[1]</sup>
	Dosage:	10 mg/kg	



Administration:	Subcutaneous injection; 10 mg/kg once daily; for 4 days
Result:	Fully cured both T. congolense- and T. vivax-infected mice for 4 days at a dose of mg/kg.

## REFERENCES

[1]. Smith A, et al. Repositioning of a Diaminothiazole Series Confirmed to Target the Cyclin-Dependent Kinase CRK12 for Use in the Treatment of African Animal Trypanosomiasis. J Med Chem. 2022 Apr 14;65(7):5606-5624.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA