P163-0892

Cat. No.:	HY-150972	
CAS No.:	1574576-45-6	
Molecular Formula:	$C_{19}H_{20}N_2O_3S$	
Molecular Weight:	356.44	~ _ N O
Target:	Fungal	
Pathway:	Anti-infection	S
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	ОН О

BIOLOGICAL ACTIV	ITV									
Description	P163-0892 is a potent and selective antifungal agent against Cryptococcus species. P163-0892 is predicted to show medium BBB penetration ^[1] .									
In Vitro	P163-0892 (0-32 μg/mL; 48 h) shows antifungal activity with a MIC of 0.25 μg/mL and 0.5 μg/mL against Cryptococcus neoformans and Cryptococcus gattii, respectively ^[1] . P163-0892 has good aqueous solubility ^[1] . P163-0892 has no cytotoxicity and no obvious cardiotoxicity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.									
In Vivo	P163-0892 (10 mg/kg; 5 days) significantly extends the survival of larvae infected with either C. neoformans or C. ga MCE has not independently confirmed the accuracy of these methods. They are for reference only.									
	Animal Model:	Wax moth larva infected with C. neoformans H99 or C. gattii <code>WM178^[1]</code>								
	Dosage:	10 mg/kg								
	Administration: 5 days									
	Result:	Increased the survival rate of larvae.								
	Animal Model:	Male Sprague–Dawley rats weighing 200–250 g $^{[1]}$								
	Dosage:	2 mg/kg or 5 mg/kg								
	Administration:	Intravenous or oral administration (Pharmacokinetic Analysis)								
	Result:	Pharmacokinetic Parameters of P163-0892 ^{a[1]}								
		route dose $T_{1/2}$ (h) T_{max} (h) AUC_{0-inf} Cl MRT_{0-t} Vd _{ss} BA (%) (h•ng/mL)(mL/h/kg) (h) (L/kg)								

Product Data Sheet



iv	2 mg/kg	7.61		749	172	2.63	7.12	
ро	5 mg/kg	15.3	3.17	NR		3.83	NR	0.
^a Abbreviat	ions: iv, in	travenous	s; po, per o	s; T _{1/2} , hal	f-life elimi	nation in h	ours; T _{max}	, time

REFERENCES

[1]. Li L, et al. Discovery of Novel 7-Hydroxy-5-oxo-4,5-dihydrothieno[3,2-b]pyridine-6-carboxamide Derivatives with Potent and Selective Antifungal Activity against Cryptococcus Species. J Med Chem. 2022 Aug 3.

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

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