GSK973

Cat. No.:	HY-138563		
CAS No.:	2138473-38-6		
Molecular Formula:	C ₂₃ H ₂₃ FN ₂ O ₄		
Molecular Weight:	410.44		
Target:	Epigenetic F	Reader Do	main
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Mass Solvent	1 mg	5 mg	10 mg
	Preparing Stock Solutions	Concentration			
		1 mM	2.4364 mL	12.1820 mL	24.3641 mL
		5 mM	0.4873 mL	2.4364 mL	4.8728 mL
		10 mM	0.2436 mL	1.2182 mL	2.4364 mL

BIOLOGICAL ACTIV	ІТҮ			
Description	GSK973 is a highly selective, orally bioavailable inhibitor of the BD2s (second bromodomains) of the BET family, with a pIC ₅₀ of 7.8 and a pK _d of 8.7 for BRD4 BD2. GSK973 displays a 1600-fold selectivity for BRD4 BD2 over BRD4 BD1. GSK973 shows good potency against BRD2 BD2, BRD3 BD2, and BRDT BD2 (pIC ₅₀ =7.4~7.8; pK _d =8.3~8.5) ^[1] .			
IC ₅₀ & Target	BRD4 BD2 7.8 (pIC ₅₀)	BRD2 BD2 7.5 (pIC ₅₀)	BRD3 BD2 7.8 (pIC ₅₀)	BRDT BD2 7.4 (pIC ₅₀)
	BRD4 BD2 8.7 (pKd)	BRD2 BD2 8.3 (pKd)	BRD3 BD2 8.5 (pKd)	BRDT BD2 8.3 (pKd)
In Vivo	GSK973 (1 mg/kg; i.v.) treatment shows the CL, CI _{renal} , V _{ss} , and T _{1/2} are 73 mL/min/kg, 4 mL/min/kg, 2.1L/kg, and 0.6 hours, respectively ^[1] . GSK973 (3 mg/kg; p.o) treatment shows the F _{po} of 48% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

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Animal Model:	Male Wistar Han Rats ^[1]
Dosage:	1 mg/kg (Pharmacokinetic Analysis)
Administration:	l.v.
Result:	The CL, CI _{renal} , V _{ss} , and T _{1/2} were 73 mL/min/kg, 4 mL/min/kg, 2.1L/kg, and 0.6 hours, respectively.

REFERENCES

[1]. Preston A, et al. GSK973 Is an Inhibitor of the Second Bromodomains (BD2s) of the Bromodomain and Extra-Terminal (BET) Family. ACS Med Chem Lett. 2020;11(8):1581-1587. Published 2020 Jul 6.

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

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