GSK2983559 free acid

MedChemExpress

Cat. No.:	HY-112038		
CAS No.:	1579965-12-0		
Molecular Formula:	C ₂₁ H ₂₃ N ₄ O ₇ F	PS ₂	
Molecular Weight:	538.53		
Target:	RIP kinase		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solution	1 mM	1.8569 mL	9.2845 mL	18.5691 ml
	5 mM	0.3714 mL	1.8569 mL	3.7138 mL
	10 mM			

BIOLOGICAL ACTIV	ІТҮ		
Description	GSK2983559 free acid (compound 3) is an orally active and potent receptor interacting protein 2 (RIP2) kinase inhibitor. GSK2983559 free acid can block many proinflammatory cytokine responses in vivo and in human inflammatory bowel disease explant samples ^[1] .		
IC ₅₀ & Target	RIPK2		
In Vitro	GSK2983559 (1-1024 nM; 2 h) blocks MDP-induced IL-8 in THP-1 cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[2]		
	Cell Line:	THP-1 cells	
	Concentration:	1-1024 nM	
	Incubation Time:	2 hours	

Product Data Sheet

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	Result:	Inhibited IL-8 production with an IC ₅₀ of 1.34 nM.
In Vivo	GSK2983559 (oral gavage; 3 and 10 mg/kg; once) inhibits effectively MDP-induced IL-6 in mouse ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	C57BL/6 mice (female) injected with MDP (100 $\mu g)^{[2]}$
	Dosage:	3 and 10 mg/kg
	Administration:	Oral gavage; 3 and 10 mg/kg; once
	Result:	Suppressed serum IL-6 levels in a dose-dependent manner.

REFERENCES

[1]. Shuwei Wu, et al. Design, synthesis, and structure-activity relationship of novel RIPK2 inhibitors. Bioorg Med Chem Lett. 2022 Sep 2;75:128968.

[2]. Haile PA, et al. Discovery of a First-in-Class Receptor Interacting Protein 2 (RIP2) Kinase Specific Clinical Candidate, 2-((4-(Benzo[d]thiazol-5-ylamino)-6-(tertbutylsulfonyl)quinazolin-7-yl)oxy)ethyl Dihydrogen Phosphate, for the Treatment of Inflammat

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

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