## GSK199

®

MedChemExpress

Cat. No.:	HY-103058				
CAS No.:	1549811-53-1				
Molecular Formula:	C <sub>24</sub> H <sub>29</sub> ClN <sub>6</sub> O <sub>2</sub>	`o ∕			
Molecular Weight:	468.98				
Target:	Protein Arginine Deiminase				
Pathway:	Epigenetics	H-CI			
Storage:	4°C, sealed storage, away from moisture				
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)				

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1323 mL	10.6614 mL	21.3229 mL
	5 mM	0.4265 mL	2.1323 mL	4.2646 mL
	10 mM	0.2132 mL	1.0661 mL	2.1323 mL

BIOLOGICAL ACTIVITY								
Description	GSK199 is an orally active, reversible, and selective PAD4 inhibitor with an IC <sub>50</sub> of 200 nM in the absence of calcium. GSK199 can be used for the research of rheumatoid arthritis <sup>[1]</sup> .							
In Vitro	GSK199 (0-20 μM, 72 h) inhibits viral genome production in a dose-dependent manner (IC <sub>50</sub> = 0.6 μM) in OC43-infected MRC-5 cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.							
In Vivo	Pharmacokinetic Analysis in Male Balb/C Mice <sup>[3]</sup>							
	Route	Dose (mg/kg)	AUC <sub>0-∞</sub> (ng∙h/mL)	t <sub>1/2</sub> (h)	C <sub>max</sub> (ng/mL)	F (%)		
	p.o.	10	4192	1.48	1.73	63.6		
	i.v.	2	1342	1.58	/	/		

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## REFERENCES

[1]. Lewis HD, et al. Inhibition of PAD4 activity is sufficient to disrupt mouse and human NET formation. Nat Chem Biol. 2015 Mar;11(3):189-91.

[2]. Pasquero S, et al. Novel antiviral activity of PAD inhibitors against human beta-coronaviruses HCoV-OC43 and SARS-CoV-2. Antiviral Res. 2022 Apr;200:105278.

[3]. Hallur G, et al. LC-ESI-MS/MS Determination of GSK-199, A Novel Reversible PAD4 Inhibitor in Mice Plasma and its Application to a Pharmacokinetic Study in Mice. Pharm Anal Chem. 2017, 3(124): 40-1.

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

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