URAT1 inhibitor 10

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®

Cat. No.:	HY-163431	F, F
CAS No.:	3012586-38-5	٥, ۲
Molecular Formula:	C ₁₉ H ₂₀ F ₃ N ₃ O ₃ S	N°O
Molecular Weight:	427.44	
Target:	URAT1	
Pathway:	Membrane Transporter/Ion Channel	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	N

BIOLOGICAL ACTIV									
Description	URAT1 inhibit	or 10 (Compound as high selectivity		1 inhibitor. UR	AT1 inhibitor 10 ha	as oral efficacy	and low cytoto	xicity. URAT1	
In Vitro	URAT1 inhibit URAT1 inhibit associated wi	or 10 (24 h) show th MSU crystal-m	in) inhibits OAT s moderate inhi ediated inflamr	1 activity in MI bition of IL-6 (natory cytokin	DCK-hOAT cells (IC IR = 25.6%) in RAW	264.7 cells, wh	ich may allevia	te symptoms	
In Vivo	in a mouse mo URAT1 inhibit	odel of hyperuric	emia induced by p.o.) has a favor	y potassium ox able pharmace	ws a significant re tybate with a redu okinetic profile ^[1] .	ction of 53.9% [[]	1].	n uric acid (SUA)	
	Route	Dose (mg/kg)	t _{1/2} (h)	t _{max} (h)	C _{max} (ng/mL)	AUC _(0-t) (ng·h/mL)	AUC _(0-∞) (ng∙h/mL)	$MRT_{(0-\infty)}\left(h\right)$	
	p.o.	50	1.9	0.25	8187	10050	10255	1.43	
	MCE has not i	ndependently co	nfirmed the acc	uracy of these	methods. They are	e for reference	only.		
	Animal Model:		hyperuricemia mice ^[1]						
	Dosage:		10 mg/kg⊠ Once a day for seven days						
	Administratio	n:	p.o.						
	Result:		-		ric acid-lowering a ng a reduction rati	-			

	comparable to that of the positive control, Lesinurad (HY-15258), which also demonstrated significant SUA-lowering effects at the same dose.
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REFERENCES

[1]. Li S et al. Proline-derived quinoline formamide compounds as human urate transporter 1 inhibitors with potent uric acid-lowering activities. Eur J Med Chem. 2024 Apr 5;269:116327

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

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