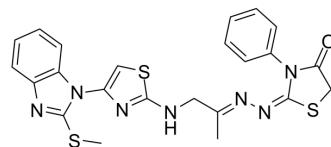


COX-2-IN-26

Cat. No.:	HY-150550
CAS No.:	2413565-19-0
Molecular Formula:	C ₂₃ H ₂₁ N ₇ OS ₃
Molecular Weight:	507.65
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	COX-2-IN-26 is a potent, selective and orally active COX-2 inhibitor with IC ₅₀ values of 10.61, 0.067, 1.96 μM for COX-1, COX-2, 15-LOX, respectively. COX-2-IN-26 shows anti-inflammatory activity. COX-2-IN-26 shows gastrointestinal safety profile ^[1] .		
IC₅₀ & Target	COX-2 0.067 μM (IC ₅₀)	COX-1 10.61 μM (IC ₅₀)	15-LOX 1.96 μM (IC ₅₀)
In Vitro	COX-2-IN-26 (compound 16) shows significant COX-2 selectivity with an SI value of 158.36 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	COX-2-IN-26 (28 μM/kg) shows a potent anti-inflammatory activity in rats with edema inhibition relative to indomethacin of 102% and 119% in 4h and 3h, respectively ^[1] . .COX-2-IN-26 (10, 30, 50 mg/kg; p.o.) shows GI safety profile with normal appearance for mucosa with intact surface epithelium and preserves glands but there is some congestion of the blood vessels in albino rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Maghraby MT, et al. Novel class of benzimidazole-thiazole hybrids: The privileged scaffolds of potent anti-inflammatory activity with dual inhibition of cyclooxygenase and 15-lipoxygenase enzymes. *Bioorg Med Chem*. 2020 Apr 1;28(7):115403.

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

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