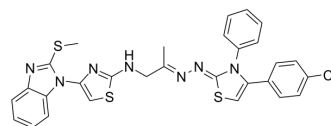


COX-2-IN-27

Cat. No.:	HY-150551
CAS No.:	2413565-17-8
Molecular Formula:	C ₂₉ H ₂₄ ClN ₇ S ₃
Molecular Weight:	602.2
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-27 is a potent and selective COX-2 inhibitor with IC ₅₀ values of 13.22, 0.045, 1.67 μM for COX-1, COX-2, 15-LOX, respectively. COX-2-IN-27 shows anti-inflammatory activity ^[1] .		
IC₅₀ & Target	COX-1 13.22 μM (IC ₅₀)	COX-2 0.045 μM (IC ₅₀)	15-LOX 1.67 μM (IC ₅₀)
In Vitro	COX-2-IN-27 (compound 15b) shows significant COX-2 selectivity with an SI value of 293.78 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	COX-2-IN-27 (28 μM/kg) shows a potent anti-inflammatory activity in rats with edema inhibition relative to indomethacin of 93.20% and 109.08% in 4h and 3h, respectively ^[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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA