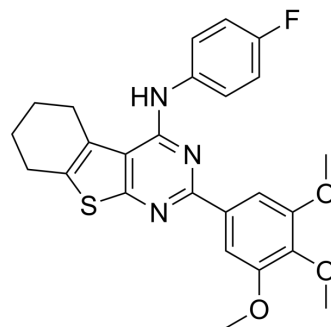


COX-2/15-LOX-IN-3

Cat. No.:	HY-155160
Molecular Formula:	C ₂₅ H ₂₄ FN ₃ O ₃ S
Molecular Weight:	465.54
Target:	Lipoxygenase; COX
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	COX-2/15-LOX-IN-3 (compound 5k) is a dual inhibitor of COX-2/15-LOX with IC ₅₀ s of 0.075 μM and 1.97 μM, respectively. COX-2/15-LOX-IN-3 can inhibit LPS-induced cell production of promoting cytokines (IL-6, ROS, and NO), with specific anti-inflammatory activity ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.068 μM (COX-2), 10.91 μM (COX-1), 2.29 μM (15-LOX) ^[1]
In Vitro	COX-2/15-LOX-IN-3 (compound 5k) decreases LPS-induced production of pro-inflammatory cytokines (IL-6, ROS, and NO) in RAW 264.7 macrophage cell line, with IC ₅₀ s of 63.03 μM, 167.91 μM and 39.31 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Elsayed S, et al. Magic shotgun approach to anti-inflammatory pharmacotherapy: Synthesis of novel thienopyrimidine monomers/heterodimer as dual COX-2 and 15-LOX inhibitors endowed with potent antioxidant activity. *Eur J Med Chem.* 2023 Aug 15;260:115724.

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

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