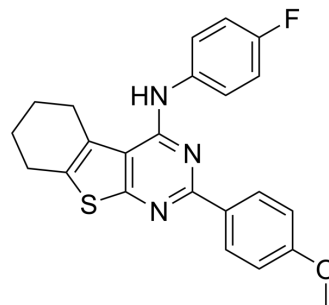


## COX-2/15-LOX-IN-4

Cat. No.:	HY-155161
Molecular Formula:	C <sub>23</sub> H <sub>20</sub> FN <sub>3</sub> OS
Molecular Weight:	405.49
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-4 (compound 5i) is a dual inhibitor of COX-2/15-LOX with IC <sub>50</sub> s of 0.075 μM and 1.97 μM, respectively. COX-2/15-LOX-IN-4 can inhibit LPS-induced cell production of promoting cytokines (IL-6, ROS) with specific anti-inflammatory activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.075 μM (COX-2), 11.43 μM (COX-1), 1.97 μM (15-LOX) <sup>[1]</sup>
In Vitro	COX-2/15-LOX-IN-4 (compound 5i) decreases LPS-induced production of pro-inflammatory cytokines (IL-6, ROS) in RAW 264.7 macrophage cell line, with IC <sub>50</sub> s of 7.48 μM and 37.54 μM, respectively <sup>[1]</sup> . 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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