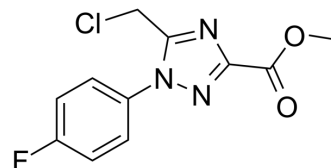


## COX-2-IN-20

<b>Cat. No.:</b>	HY-147809
<b>CAS No.:</b>	2529451-43-0
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>9</sub> ClFN <sub>3</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	269.66
<b>Target:</b>	COX
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	COX-2-IN-20 (Compound 5d) is a selective and orally active COX-2 inhibitor with an IC <sub>50</sub> of 17.9 nM. COX-2-IN-20 shows anti-inflammatory activity <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	COX-2 17.9 nM (IC <sub>50</sub> )	COX-1 19.3 μM (IC <sub>50</sub> )
<b>In Vitro</b>	COX-2-IN-20 (Compound 5d) shows potential anti-inflammatory activity on NO inhibition in LPS-induced RAW 264.7 cell with an IC <sub>50</sub> of 2.87 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	COX-2-IN-20 (Compound 5d) (5 mg/kg) exhibits better in vivo anti-inflammation and gastric protection than 10 mg/kg Indomethacin <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. Li SM, et al. New methyl 5-(halomethyl)-1-aryl-1H-1,2,4-triazole-3-carboxylates as selective COX-2 inhibitors and anti-inflammatory agents: Design, synthesis, biological evaluation, and docking study. *Bioorg Chem.* 2020 Nov;104:104333.

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

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