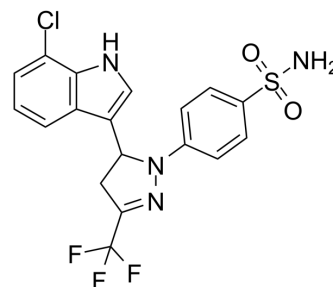


## COX-2-IN-1

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-U00275   |
| CAS No.:           | 787623-48-7   |
| Molecular Formula: | C <sub>18</sub> H <sub>14</sub> ClF <sub>3</sub> N <sub>4</sub> O <sub>2</sub> S          |
| Molecular Weight:  | 442.84  |
| 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-1 is potent and selective COX-2 inhibitor with an IC <sub>50</sub> of 3.9 μM.   |
| IC <sub>50</sub> & Target | COX-2<br>3.9 μM (IC <sub>50</sub> )  |
| In Vitro                  | COX-2-IN-1 (compound 5f) is an inhibitor of COX-1 and COX-2 with IC <sub>50</sub> s of >100 and 3.9 μM, respectively. Comparison of 5b and COX-2-IN-1 shows that smaller halogen atom at 5th position on the indole ring enhances COX-2 enzyme inhibition activity, whereas the presence of a larger bromine atom at 6th position of the ring improves the inhibitory activity (5d, 5e and 5h) of the compound <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. Reddy MV, et al. Design, synthesis, and biological evaluation of 1-(4-sulfamylphenyl)-3-trifluoromethyl-5-indolyl pyrazolines as cyclooxygenase-2 (COX-2) and lipoxygenase (LOX) inhibitors. Bioorg Med Chem. 2008 Apr 1;16(7):3907-16.

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

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