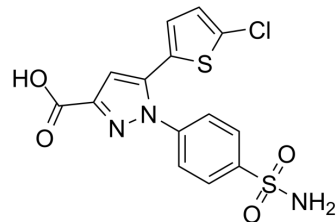


## COX-2/5-LOX-IN-1

Cat. No.:	HY-146294
CAS No.:	2410384-50-6
Molecular Formula:	C <sub>14</sub> H <sub>10</sub> ClN <sub>3</sub> O <sub>4</sub> S <sub>2</sub>
Molecular Weight:	383.83
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

COX-2/5-LOX-IN-1 (compound 3a) is a potent and dual inhibitor of COX-2/5-LOX. COX-2/5-LOX-IN-1 is a benzothiophen-2-yl pyrazole carboxylic acid derivative. COX-2/5-LOX-IN-1 shows the most potent analgesic and anti-inflammatory activities surpassing that of Celecoxib and Indomethacin. COX-2/5-LOX-IN-1 shows potent COX-1, COX-2 and 5-LOX inhibitory activity with IC<sub>50</sub>s of 12.13, 0.4 and 4.96 μM, respectively<sup>[1]</sup>.

### REFERENCES

[1]. Gedawy EM, et al. Design, synthesis and biological evaluation of novel pyrazole sulfonamide derivatives as dual COX-2/5-LOX inhibitors. *Eur J Med Chem.* 2020;189:112066.

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

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