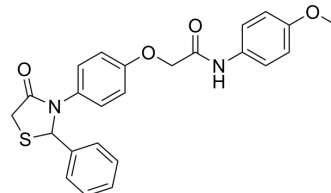


## Anti-inflammatory agent 53

Cat. No.:	HY-155781
Molecular Formula:	C <sub>24</sub> H <sub>22</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	434.51
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Anti-inflammatory agent 53 (compound 7c) is an orally active selective COX-2 inhibitor. Anti-inflammatory agent 52 has anti-HT29 transfer activity, which leads to periodic arrest in S phase and G2/M phase. Anti-inflammatory agent 52 has safety, moderate ability to suppress inflammation. Anti-inflammatory agent 52 has a rare property of suppressing the development of tumor in mouse model, showing anti-cancer activity <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	COX-2 <sup>[1]</sup>
<b>In Vitro</b>	Anti-inflammatory agent 53 (compound 7c) (0.025 μM; 24 h) inhibits colonies formation of HT29 cells, arrests cell cycle at G2/M and S phase <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Anti-inflammatory agent 53 (compound 7c) (50 mg/kg; po; every other day for two weeks) decreases the volume and weight of the tumors in Ehrlich solid carcinoma-bearing mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Shawky AM, et al. Discovery and optimization of 2,3-diaryl-1,3-thiazolidin-4-one-based derivatives as potent and selective cytotoxic agents with anti-inflammatory activity. *Eur J Med Chem.* 2023 Nov 5;259:115712.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA