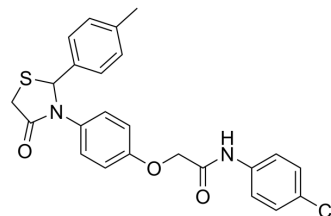


Anti-inflammatory agent 52

Cat. No.:	HY-155780
Molecular Formula:	C ₂₄ H ₂₁ ClN ₂ O ₃ S
Molecular Weight:	452.95
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anti-inflammatory agent 52 (compound 7j) is an orally active selective COX-2 inhibitor. Anti-inflammatory agent 52 has anti-HT29 transfer activity, which leads to periodic arrest in 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 ^[1] .
IC₅₀ & Target	COX-2 ^[1]
In Vitro	Anti-inflammatory agent 52 (compound 7j) (0.25 μM; 24 h) inhibits colonies formation of HT29 cells, arrests cell cycle at G2/M phase ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Anti-inflammatory agent 52 (compound 7j) (50 mg/kg; po; every other day for two weeks) decreases the volume and weight of the tumors in Ehrlich solid carcinoma-bearing mice ^[1] . 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.

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