COX-2-IN-23

Cat. No.: HY-147961

CAS No.: 2417995-08-3

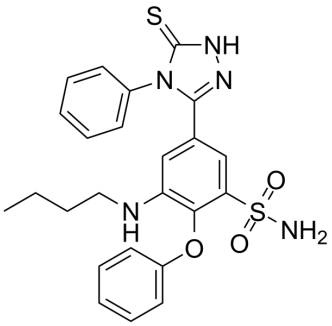
Molecular Formula: $C_{24}H_{25}N_5O_3S_2$

Molecular Weight: 495.62

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-23 (compound 9a) is a selective COX-2 inhibitor with IC_{50} values of 0.28 and 20.14 μM for COX-2 and COX-1. COX-2-IN-23 has anti-inflammatory activity and low ulcerogenic activity.

IC_{50} & Target	COX-2	COX-1
	0.28 μM (IC_{50})	20.14 μM (IC_{50})

In Vivo

COX-2-IN-23 (compound 9a) (9 mg/kg; a single i.p.; 0-4 hours) exhibits anti-inflammatory activities and lowest incidence of pepticulcer[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mature male albino rats[1]
Dosage:	9 mg/kg
Administration:	Intraperitoneal injection; 0, 1, 2, 3 and 4 hours.
Result:	Had similar ulcerogenic activity to celecoxib.

REFERENCES

[1]. Ibrahim TS, et al. Design, synthesis, and pharmacological evaluation of novel and selective COX-2 inhibitors based on bumetanide scaffold. Bioorg Chem. 2020 Jul;100:103878.

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