

COX-2-IN-61

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

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| Description | COX-2-IN-61 is an orally active COX-2 inhibitor with an IC50 of 22 μ M. It also inhibits COX-1 with an IC50 of 43 μ M. In the carrageenan-induced rat paw edema model, COX-2-IN-61 demonstrates anti-inflammatory effects and exhibits a good safety profile, making it suitable for inflammation research. |
| Targets(IC50) | COX |
| In vitro | COX-2-IN-61 (compound 4) creates hydrogen bonds with Arg513 and Ala527, and engages in hydrophobic interactions with Val523, Met522, and Val349. These interactions facilitate its binding to COX-2, contributing to its anti-inflammatory effects. |
| In vivo | COX-2-IN-61 (compound 4), administered orally at a single dose of 50 mg/kg, demonstrates significant anti-inflammatory activity comparable to that of Celecoxib in the carrageenan-induced rat paw edema model. When given daily at the same dose for 14 days, COX-2-IN-61 exhibits lower ulcerogenic, cardiotoxic, and nephrotoxic effects in rats compared to Celecoxib. |

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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