MEY-003

Cat. No.: HY-149716

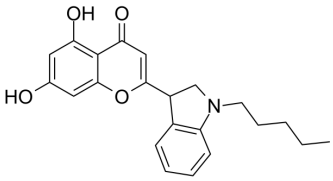
Molecular Formula: $C_{22}H_{23}NO_4$

Molecular Weight: 365.42

Target: Phosphodiesterase (PDE)

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MEY-003 is an Autotaxin(ATX) inhibitor with EC_{50}s of 460 nM and 1.09 μM for hATX-β and hATX-ɣ (analysis with LPC18:1). MEY-003 behaves as a non-competitive inhibitor with K_i of 432 nM. MEY-003 can be used for targeted ATX-related disease research [1].
IC_{50} & Target	Autotaxin
In Vitro	MEY-003 (10 μM, 30 min) blocks lysophosphatidic acid (LPA) signaling, and reduces LPA1 receptor internalization in HeLa cell [1]. MEY-003 (100 μM, 0-24 h) shows no cytotoxicity effects in HeLa and HEK293 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	HeLa and HEK293 cells
Concentration:	100 μM
Incubation Time:	0-24 h
Result:	Showed non-cytotoxic after prolonged treatment (up to 24 h) at 100 μM with HeLa cells or HEK293 cells.

REFERENCES

[1]. Eymery M C, et al. Discovery of potent chromone-based autotaxin inhibitors inspired by cannabinoids [J]. European Journal of Medicinal Chemistry, 2023: 115944.

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