PROTAC CYP1B1 degrader-1

Cat. No.: HY-146393

CAS No.: 2411389-67-6

Molecular Formula: $C_{43}H_{39}N_5O_{10}$

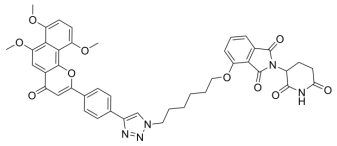
Molecular Weight: 785.8

Target: PROTACs; Cytochrome P450

Pathway: PROTAC; Metabolic Enzyme/Protease

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMF : 10 mg/mL (12.73 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2726 mL	6.3629 mL	12.7259 mL
	5 mM	0.2545 mL	1.2726 mL	2.5452 mL
	10 mM	0.1273 mL	0.6363 mL	1.2726 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PROTAC CYP1B1 degrader-1 (Compound 6C), a α-naphthoflavone chimera derivative, is able to eliminate cytochrome P450 (CYP)1B1-mediated agent resistance via targeted CYP1B1 degradation, with IC_{50}s of 95.1 and 9838.6 nM for CYP1B1 and CYP1A2, respectively. PROTAC CYP1B1 degrader-1 can be used for the research of CYP1B1-overexpressing prostate cancer[1].

REFERENCES

[1]. Li Zhou, et al. Design and synthesis of α-naphthoflavone chimera derivatives able to eliminate cytochrome P450 (CYP)1B1-mediated drug resistance via targeted CYP1B1 degradation. Eur J Med Chem. 2020 Mar 1;189:112028.

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