

Product Data Sheet

Product Name: CPD-10
Cat. No.: GC82655

Chemical Properties

Cas. No. 3055471-57-0

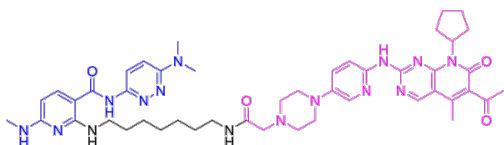
Formula $C_{46}H_{61}N_{15}O_4$ M.Wt 888.07

Solubility DMSO: 100 mg/mL (112.60 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

CPD-10 is a potent CCND1 and CDK4 PROTAC degrader. CPD-10 exhibits anti-proliferative effects on tumor cells and can also induce apoptosis. CPD-10 can be used for the study of breast cancer and lung cancer [1]. (Pink: Cdk4/cyclin D1 ligand; Blue: Ligands for E3 Ligase ligand; Black: linker).

Caution: Product has not been fully validated for medical applications. For research use only.

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In Vivo, CPD-10 (oral administration; 10 mg/kg) has an oral bioavailability of 15% after 12 hours [1].

In Vitro, CPD-10 (1 nM-10 μ M; 3-6 days) exhibits anti-proliferative activity against Calu-1, MCF7 and T47D cells, with IC₅₀ values of 1.7, 16.6 and 17.5 nM respectively [1]. CPD-10 (3.9-1000 nM; 48 h) can reduce the expression levels of CCND1, CCND3, CDK4, FoxM1, Cyclin A2 and p-Rb proteins in T47D cells [1]. CPD-10 (15-200 nM; 6 days) can induce apoptosis in T47D cells [1]. CPD-10 (1 nM-10 μ M; 3-6 days) has a half-maximal inhibitory concentration (IC₅₀) of 19.5 nM against parental T47D cells and an IC₅₀ of 33 nM against Palbociclib -resistant T47D cells [1].

References:

[1]. Jing Liu, et al. Compounds and methods of treating cancers. French, WO2024183798A1.

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