

XY028-140

Chemical Properties

CAS No. : 2229974-83-6

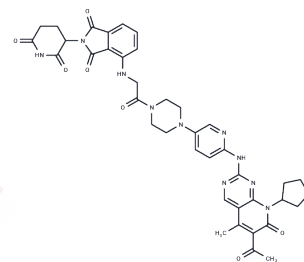
Formula: C₃₉H₄₀N₁₀O₇

Molecular Weight: 760.8

Keep away from direct sunlight

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

| | |
|---------------|---|
| Description | XY028-140 is a selective CDK4/CDK6 degrade and inhibits both CDK4/6 expression and activity in cancer cells. XY028-140 is a PROTAC connected by ligands for Cereblon and CDK. |
| Targets(IC50) | CDK,PROTACs |
| In vitro | In A375 melanoma and T47D breast cancer cells, XY028-140(0.3 or 1 μM for 24h) inhibited both CDK4/6 expression and CDK4/6 activity. In T47D breast cancer cells, XY028-140(0.03, 0.1, 0.3, 1, or 3 μM for 11d) inhibited cancer cell proliferation in breast cancer cells[1]. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 5 mg/mL (6.57 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.3144 mL | 6.572 mL | 13.1441 mL |
| 5 mM | 0.2629 mL | 1.3144 mL | 2.6288 mL |
| 10 mM | 0.1314 mL | 0.6572 mL | 1.3144 mL |
| 50 mM | 0.0263 mL | 0.1314 mL | 0.2629 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jian Jin, et al. Compositions and methods for treating cdk4/6-mediated cancer. WO2018106870A1.

Xuewei Wu, et al. Distinct CDK6 complexes determine tumor cell response to CDK4/6 inhibitors and degraders. Nat Cancer 2, 429-443 (2021).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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