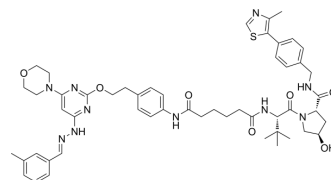


## PIK5-12d

|                           |  |       |          |
|---------------------------|--|-------|----------|
| <b>Cat. No.:</b>          | HY-155994  |       |          |
| <b>Molecular Formula:</b> | C <sub>52</sub> H <sub>64</sub> N <sub>10</sub> O <sub>7</sub> S |       |          |
| <b>Molecular Weight:</b>  | 973.19   |       |          |
| <b>Target:</b>            | PIKfyve; Autophagy; PROTACs                                      |       |          |
| <b>Pathway:</b>           | PI3K/Akt/mTOR; Autophagy; PROTAC                                 |       |          |
| <b>Storage:</b>           | Powder   | -20°C | 3 years  |
|                           |  | 4°C   | 2 years  |
|                           | In solvent   | -80°C | 6 months |
|                           |  | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 200 mg/mL (205.51 mM; Need ultrasonic)

| Concentration | Mass      |           |            |  |
|---------------|-----------|-----------|------------|--|
|               | 1 mg      | 5 mg      | 10 mg      |  |
| 1 mM          | 1.0275 mL | 5.1377 mL | 10.2755 mL |  |
| 5 mM          | 0.2055 mL | 1.0275 mL | 2.0551 mL  |  |
| 10 mM         | 0.1028 mL | 0.5138 mL | 1.0275 mL  |  |

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

### BIOLOGICAL ACTIVITY

#### Description

PIK5-12d is a PROTAC PIKfyve degrader (DC<sub>50</sub>: 1.48 nM). PIK5-12d induces massive cytoplasmic vacuolization and blocks autophagic flux in multiple prostate cancer cells. PIK5-12d inhibits prostate cancer cell proliferation. PIK5-12d has anti-tumor activity<sup>[1]</sup>.

### REFERENCES

[1]. Li C, et al. Discovery of a First-in-Class Degradator for the Lipid Kinase PIKfyve. J Med Chem. 2023 Sep 14;66(17):12432-12445.

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

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