

Product Name	: THZ-P1-2
Synonyms	: —
Cat No.	: M35120
CAS Number	: 2058075-45-7
Molecular Formula	: C ₃₁ H ₂₉ N ₇ O ₂
Formula Weight	: 531.61
Chemical Name	: —
Description	THZ-P1-2 is a first-in-class and selective PI5P4K inhibitor, with an IC ₅₀ of 190 nM for PI5P4Kα. THZ-P1-2 covalently targets cysteines on a disordered loop in PI5P4Kα/β/γ. THZ-P1-2 causes autophagy disruption and upregulates TFEB signaling. THZ-P1-2 displays anticancer activity in leukemia cell lines.
Pathway	: PI3K/Akt/mTOR signaling
Target	: PI3K
Receptor	: PI3K
Solubility	: In Vitro: ?DMSO : 100 mg/mL (188.11 mM; Ultrasonic)
SMILES	: <chem>CN(C)C/C=C/C(=O)Nc1ccc(cc1)C(=O)Nc1cccc(Nc2cc(ncn2)-c2c[nH]c3cccc23)c1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Sivakumaren SC, et al. Targeting the PI5P4K Lipid Kinase Family in Cancer Using Covalent Inhibitors. Cell Chem Biol. 2020;27(5):525-537.e6.?