

Product Name : PI-273

Synonyms : PI273

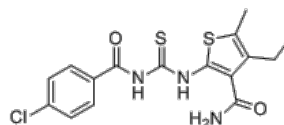
Cat No. : M16628

CAS Number : 925069-34-7

Molecular Formula : C₁₆H₁₆ClN₃O₂S₂

Formula Weight : 381.89

Chemical Name : 2-(3-(4-chlorobenzoyl)thioureido)-4-ethyl-5-methylthiophene-3-carboxamide



Description : PI-273 (PI273) is a potent, specific, substrate-competitive small molecule inhibitor of PI4KIIα with IC₅₀ of 0.47 μM; reduces PI4P content, cell viability and AKT signaling in wild-type MCF-7 cells but not in PI4KIIα knockout MCF-7 cells; retards cell proliferation by blocking cells in G2/M, inducing cell apoptosis and suppressing colony-forming ability, significantly inhibits MCF-7 cell-induced breast tumor growth without toxicity in a xenograft model (intravenous or intragastrical).

Pathway : PI3K/Akt/mTOR signaling

Target : PI4K

Receptor : PI4K

Solubility : —

SMILES : CCC1=C(SC(=C1C(=O)N)NC(=S)NC(=O)C2=CC=C(C=C2)Cl)C

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Li J, et al. Cancer Res. 2017 Aug 21. pii: canres.0484.2017.