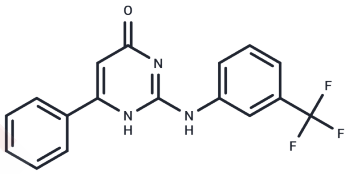
Data Sheet (Cat.No.T68323)

TargetMol

GAC0001E5

Chemical Properties



CAS No. : 927969-67-3

Formula: C17H12F3N3O

Molecular Weight: 331.29

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	GAC0001E5 (1E5) is a dual LXR inverse agonist and degrader (IC50 = 5.4-9.1 μM in pancreatic cancer cells). It inhibits tumor growth and induces apoptosis by promoting LXRα/β degradation and suppressing transcriptional activity.
Targets(IC50)	Liver X Receptor
In vitro	In Western Blot, GAC0001E5 (1E5) reduced LXRα/β protein levels. It inhibited growth in AsPC-1, MiaPaCa-2, and BxPC-3 cells (IC50 = 8.0, 5.4, and 9.1 μM) and downregulated ABCA1 via qPCR[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (301.85 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0185 mL	15.0925 mL	30.185 mL
5 mM	0.6037 mL	3.0185 mL	6.037 mL
10 mM	0.3019 mL	1.5093 mL	3.0185 mL
50 mM	0.0604 mL	0.3019 mL	0.6037 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

Karaboga H, et al. Screening of Focused Compound Library Targeting Liver X Receptors in Pancreatic Cancer Identified Ligands with Inverse Agonist and Degrader Activity. ACS Chem Biol. 2020 Nov 20;15(11):2916-2928.

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