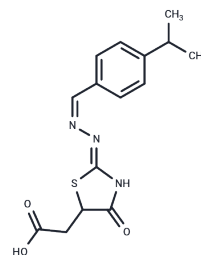


VPC-18005

Chemical Properties

CAS No. : 2242480-48-2
 Formula: C₁₅H₁₇N₃O₃S
 Molecular Weight: 319.38
 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	VPC-18005 is a luciferase inhibitor. VPC-18005 inhibits ERG-induced transcription and interacts directly with the ERG-ETS domain thereby disrupting the ERG binding to DNA.
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	VPC-18005 (1 and 10 μM) produced a 20-30% decrease in the dissemination of cancer cells in zebrafsh[1]. VPC-18005 (5 μM) inhibits pETS-luc reporter activity with IC50s of 3 and 6 μM in PNT1B-ERG and VCaP cells, respectively. VPC-18005 antagonizes the metastatic potential of ERG-expressing prostate cells and suppresses ERG reporter activity without exhibiting overt cytotoxicity. VPC-18005 inhibits migration and invasion of ERG-overexpressing cells in vitro[2].

Solubility Information

Solubility	DMSO: 60 mg/mL (187.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1311 mL	15.6553 mL	31.3107 mL
5 mM	0.6262 mL	3.1311 mL	6.2621 mL
10 mM	0.3131 mL	1.5655 mL	3.1311 mL
50 mM	0.0626 mL	0.3131 mL	0.6262 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

Haneen Amawi, et al. The use of zebrafish model in prostate cancer therapeutic development and discovery. *Cancer Chemother Pharmacol.* 2021 Mar;87(3):311-325.

Miriam S Butler, et al. Discovery and characterization of small molecules targeting the DNA-binding ETS domain of ERG in prostate cancer. *Oncotarget.* 2017 Jun 27;8(26):42438-42454.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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