

VPC-14449

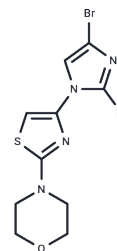
Chemical Properties

CAS No. : 1621375-32-3

Formula: C₁₀H₁₀Br₂N₄O₅

Molecular Weight: 394.09

Storage: Keep away from direct sunlight, Keep away from moisture, Store at low temperature
 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-14449 is a selective androgen receptor DNA-binding domain (AR-DBD) inhibitor, useful in prostate cancer research.
Targets(IC50)	Androgen Receptor
In vitro	Methods: LNCaP, C4-2, MR49F, and 22Rv1 cells were treated with VPC-14449 (0.01-100 μM, 24 hours) to test its inhibitory effect on AR-V7 transcriptional activity in cells. Results: VPC-14449 inhibited AR transcriptional activity and cell viability in LNCaP, C4-2, MR49F, and 22Rv1 cells.[1]
In vivo	Methods: Castrated mice were given VPC-14449 (100 mg/kg, ip, for 4 weeks) twice daily and LNCaP xenograft tumor volume and serum PSA were assessed. Results: VPC-14449 reduced tumor volume and abolished PSA production in the LNCaP xenograft model.[1]

Solubility Information

Solubility	DMSO: 100 mg/mL (253.75 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.15 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5375 mL	12.6875 mL	25.3749 mL
5 mM	0.5075 mL	2.5375 mL	5.075 mL
10 mM	0.2537 mL	1.2687 mL	2.5375 mL
50 mM	0.0507 mL	0.2537 mL	0.5075 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

Dalal K, et al. Selectively targeting the DNA-binding domain of the androgen receptor as a prospective therapy for prostate cancer. J Biol Chem. 2014 Sep 19;289(38):26417-29.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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