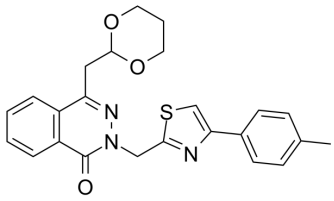
PHT-7.3

Cat. No.:	HY-128590
CAS No.:	1614225-93-2
Molecular Formula:	$C_{24}H_{23}N_3O_3S$
Molecular Weight:	433.52
Target:	Ras
Pathway:	GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (144.17 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3067 mL	11.5335 mL	23.0670 mL
5 mM	0.4613 mL	2.3067 mL	4.6134 mL
10 mM	0.2307 mL	1.1533 mL	2.3067 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 6.25 mg/mL (14.42 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 6.25 mg/mL (14.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PHT-7.3 is a selective inhibitor of connector enhancer of kinase suppressor of Ras 1 (Cnk1) pleckstrin homology (PH) domain (K_d=4.7 μM). PHT-7.3 inhibits mut-KRas, but not wild-type KRas cancer cell and tumor growth and signaling. PHT-7.3 has antitumor activity[1].

IC_{50} & Target

Cnk1 PH-domain[1]

In Vivo

PHT-7.3 (200 mg/kg; i.p.; daily; for 20 days) exhibits cytostatic antitumor activity in the mut-KRas(G12S) A549 xenograft and mut-KRasG12V H441 xenograft[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female NOD-SCID mice (mut-KRas A549 NSCLC xenografts, mut-KRas H441 NSCLC xenografts)[1]
Dosage:	200 mg/kg
Administration:	Intraperitoneal injection, daily, for 20 days
Result:	Exhibited cytostatic antitumor activity in the mut-KRas(G12S) A549 xenograft and mut-KRasG12V H441 xenograft .

CUSTOMER VALIDATION

- Life Sci Alliance. 2021 Jun 29;4(9):e202101095.

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REFERENCES

[1]. Indarte M, et al. An Inhibitor of the Pleckstrin Homology Domain of CNK1 Selectively Blocks the Growth of Mutant KRAS Cells and Tumors. Cancer Res. 2019 Jun 15;79(12):3100-3111.

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