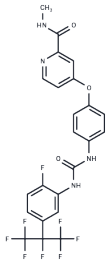
Data Sheet (Cat.No.T8843)

TargetMol

APS6-45

Chemical Properties



CAS No. : 2188236-41-9

Formula: C23H16F8N4O3

Molecular Weight: 548.39

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	APS6-45 inhibits RAS/MAPK signaling and exhibits anti-tumor activity.
Targets(IC50)	MAPK,Ras
In vitro	APS6-45 (1 μM; 1 h) strongly inhibits RAS pathway activity signaling in human MTC cell lines TT and MZ-CRC-1[1].
In vivo	APS6-45 did not affect body weight of dosed(10 mg/kg) mice after 30 d.APS6-45 (0.1-160 mg/kg; a single p.o.) does not cause detectable toxic effects in mice[1].

Solubility Information

Solubility	DMSO: 240 mg/mL (437.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (6.02 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8235 mL	9.1176 mL	18.2352 mL
5 mM	0.3647 mL	1.8235 mL	3.647 mL
10 mM	0.1824 mL	0.9118 mL	1.8235 mL
50 mM	0.0365 mL	0.1824 mL	0.3647 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

Sonoshita M, Scopton AP, Ung PMU, et al. A whole-animal platform to advance a clinical kinase inhibitor into new disease space. Nat Chem Biol. 2018;14(3):291-298. doi:10.1038/nchembio.2556