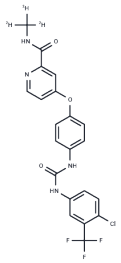
Data Sheet (Cat.No.T16909)

TargetMol

Donafenib

Chemical Properties



CAS No. : 1130115-44-4

Formula: C21H13ClD3F3N4O3

Molecular Weight: 467.84

Storage: Keep away from direct sunlight
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	Donafenib is a deuterium-labeled Sorafenib (T0093L) which is a multikinase inhibitor (IC50s: 6 nM, 20 nM, and 22 nM for Raf-1, B-Raf, and VEGFR-3, respectively).
Targets(IC50)	Apoptosis,Raf,FLT,Ferroptosis,Autophagy,VEGFR

Solubility Information

Solubility	DMSO: 250 mg/mL (534.37 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: 3.3 mg/mL (7.05 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	2.1375 mL	10.6874 mL	21.3748 mL
5 mM	0.4275 mL	2.1375 mL	4.275 mL
10 mM	0.2137 mL	1.0687 mL	2.1375 mL
50 mM	0.0427 mL	0.2137 mL	0.4275 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

Wilhelm SM, et al. BAY 43-9006 exhibits broad spectrum oral antitumor activity and targets the RAF/MEK/ERK pathway and receptor tyrosine kinases involved in tumor progression and angiogenesis. Cancer Res. 2004 Oct 1; 64(19):7099-109.

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