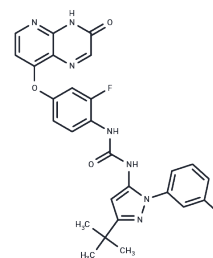


TBAP-001

Chemical Properties

CAS No. : 1777832-90-2
 Formula: C₂₇H₂₃F₂N₇O₃
 Molecular Weight: 531.51
 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	TBAP-001 is a RAF kinase inhibitor, with an IC ₅₀ of 62 nM in BRAF V600E kinase assay and an IC ₅₀ of 18 nM in Cell-Based Phosho-ERK Assay.
Targets(IC ₅₀)	Raf
In vitro	The IC ₅₀ values of TBAP-001 are 178 nM (A375), 62 nM (WM266.4), 72 nM (UACC62), 93 nM (LOX INVI), 590 nM (HT 29), 43 nM (COLO225), 690 nM (RKO), 490 nM (Mawi), 390 nM (WiDr), 480 nM (Colo741), 480 nM (SW620), 600 nM (HCT116), 390 nM (SKMEL2), 710 nM (D04), 390 nM (WM1361), 1150 nM (PDAC R172H (p53 mut)), 290 nM (MiaPaCa) and 490nM (RPMI8226) in different cancer cell lines[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (470.36 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 (6.21 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	1.8814 mL	9.4072 mL	18.8143 mL
5 mM	0.3763 mL	1.8814 mL	3.7629 mL
10 mM	0.1881 mL	0.9407 mL	1.8814 mL
50 mM	0.0376 mL	0.1881 mL	0.3763 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

Caroline Joy, et al. 1 -(5-TERT-BUTYL-2-ARYL-PYRAZOL-3-YL)-3-[2-FLUORO-4-[(3-OXO-4H-PYRIDO[2, 3-B]PYRAZIN-8-YL)OXY]PHENYL]UREA DERIVATIVES AS RAF INHIBITORS FOR THE TREATMENT OF CANCER.WO2015075483A1

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