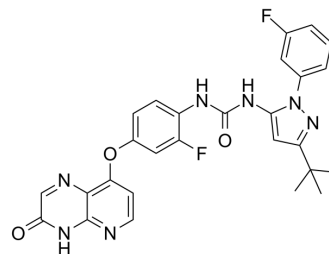


TBAP-001

Cat. No.:	HY-136567		
CAS No.:	1777832-90-2		
Molecular Formula:	C ₂₇ H ₂₃ F ₂ N ₇ O ₃		
Molecular Weight:	531.51		
Target:	Raf		
Pathway:	MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (470.36 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.08 mg/mL (3.91 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (3.91 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.91 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TBAP-001 (Synthesis 13), extracted from patent WO2015075483A1, is a pan-RAF kinase inhibitor, with an IC₅₀ of 62 nM in BRAF V600E kinase assay^[1].

IC₅₀ & Target

IC₅₀: 62 nM (BRAF V600E kinase assay), 18 nM (Cell-Based Phosho-ERK Assay)^[1].

In Vitro

BAP-001 (Synthesis 13) exhibits IC₅₀ values of 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].

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

REFERENCES

[1]. Caroline Joy, et al. 1-(5-TERT-BUTYL-2-ARYL-PYRAZOL-3-YL)-3-[2-FLUORO-4-[(3-OXO-4H-PYRIDO]2,

Caution: Product has not been fully validated for medical applications. For research use only.

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