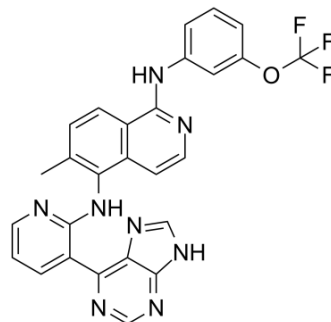


LUT014

Cat. No.:	HY-111940
CAS No.:	2274819-46-2
Molecular Formula:	C ₂₇ H ₁₉ F ₃ N ₈ O
Molecular Weight:	528.49
Target:	Raf
Pathway:	MAPK/ERK Pathway
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (94.61 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (insoluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.8922 mL	9.4609 mL	18.9218 mL
			5 mM	0.3784 mL	1.8922 mL	3.7844 mL
10 mM			0.1892 mL	0.9461 mL	1.8922 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: ≥ 2.08 mg/mL (3.94 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	LUT014 is a B-Raf inhibitor with an IC ₅₀ of 11.7 nM, and developed to reduce dose-limiting acneiform lesions associated EGFR Inhibitors treatment. Extracted from patent WO 2019026065A2 ^[1] .
IC ₅₀ & Target	B-Raf 11.7 nM (IC ₅₀)

REFERENCES

[1]. Noa Shelach. Novel braf inhibitors and use there of for treatment of cutaneous reactions. WO2019026065A2.

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

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