LUT014

Cat. No.: HY-111940

CAS No.: 2274819-46-2

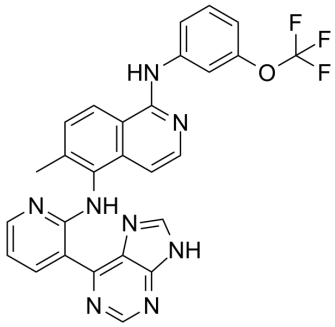
Molecular Formula: $C_{27}H_{19}F_3N_8O$

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)

Preparing Stock Solutions

Solvent / Mass / Concentration	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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