B-Raf IN 1

Cat. No.: HY-18227

CAS No.: 950736-05-7

Molecular Formula: $C_{29}H_{24}F_3N_5O$

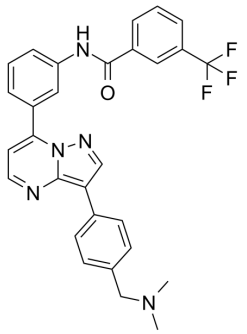
Molecular Weight: 515.53

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 : 65 mg/mL (126.08 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.9398 mL	9.6988 mL	19.3975 mL
5 mM	0.3880 mL	1.9398 mL	3.8795 mL
10 mM	0.1940 mL	0.9699 mL	1.9398 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: ≥ 3.25 mg/mL (6.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

B-Raf IN 1 is a potent and selective B-Raf kinase inhibitor with an IC_{50} of 24 nM.

IC_{50} & Target

B-Raf
24 nM (IC_{50})

In Vitro

B-Raf IN 1 (Compound 10n) inhibits WM 266-4 and HT29 cells with IC_{50}s of 0.92 and 0.78 μM, respectively[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Berger DM, et al. Non-hinge-binding pyrazolo[1,5-a]pyrimidines as potent B-Raf kinase inhibitors. Bioorg Med Chem Lett. 2009 Dec 1;19(23):6519-23.

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