(-)-Enitociclib

Cat. No.: HY-103019B

CAS No.: 1610358-59-2

Molecular Formula: $C_{19}H_{18}F_2N_4O_2S$

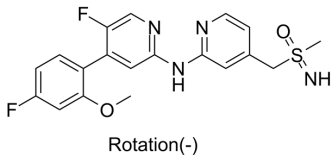
Molecular Weight: 404.43

Target: CDK

Pathway: Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



Rotation(-)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 22 mg/mL (54.40 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4726 mL	12.3631 mL	24.7262 mL
5 mM	0.4945 mL	2.4726 mL	4.9452 mL
10 mM	0.2473 mL	1.2363 mL	2.4726 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: ≥ 2.2 mg/mL (5.44 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.2 mg/mL (5.44 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.2 mg/mL (5.44 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

(-)-Enitociclib ((R)-Enitociclib) is an enanthiomer of BAY-1251152 with rotation (-). BAY-1251152 is a potent and highly selective PTEF/CDK9 inhibitor.

IC_{50} & Target

CDK9

REFERENCES

[1]. Luecking, et al. Identification of potent and highly selective PTEFb inhibitor BAY 1251152 for the treatment of cancer: from p.o. to i.v. application via scaffold hops. AACR; Cancer Res 2017;77(13 Suppl):Abstract nr 984. doi:10.1158/1538-7445.AM2017-984

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