(S)-Ceralasertib

Cat. No.: HY-19323A

CAS No.: 1352226-87-9

Molecular Formula: $C_{20}H_{24}N_6O_2S$

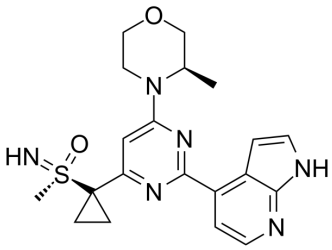
Molecular Weight: 412.51

Target: ATM/ATR

Pathway: Cell Cycle/DNA Damage; PI3K/Akt/mTOR

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 : 100 mg/mL (242.42 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4242 mL	12.1209 mL	24.2418 mL
	5 mM	0.4848 mL	2.4242 mL	4.8484 mL
	10 mM	0.2424 mL	1.2121 mL	2.4242 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: ≥ 2.5 mg/mL (6.06 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(S)-Ceralasertib ((S)-AZD6738) is extracted from patent WO2011154737A1, Compound II, exhibits an IC_{50} of 2.578 nM[1].(S)-Ceralasertib is a potent and selective sulfoximine morpholinopyrimidine ATR inhibitor with excellent preclinical physicochemical and pharmacokinetic (PK) characteristics.(S)-Ceralasertib is developed improving aqueous solubility and eliminates CYP3A4 time-dependent inhibition[2].

CUSTOMER VALIDATION

- Research Square Preprint. 2023 May 31.

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REFERENCES

[1]. By Foote, et al. Morpholinopyrimidines as ATR kinase inhibitors and their preparation, pharmaceutical compositions and use in the treatment of cancer. PCT Int. Appl. (2011), WO 2011154737 A1 20111215.

[2]. Foote KM, et al. Discovery and Characterization of AZD6738, a Potent Inhibitor of Ataxia Telangiectasia Mutatedand Rad3 Related (ATR) Kinase with Application as an Anticancer Agent. J Med Chem. 2018 Nov 21;61(22):9889-9907.

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