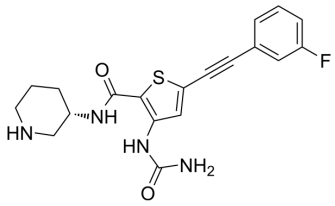
PHI-101

Cat. No.:	HY-153857
CAS No.:	2127107-15-5
Molecular Formula:	$C_{19}H_{19}FN_4O_2S$
Molecular Weight:	386.44
Target:	FLT3
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (258.77 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5877 mL	12.9386 mL	25.8772 mL
	5 mM	0.5175 mL	2.5877 mL	5.1754 mL
	10 mM	0.2588 mL	1.2939 mL	2.5877 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 (6.47 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (6.47 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (6.47 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

PHI-101 is an orally active FLT3 inhibitor that overcomes resistance to multiple drug-resistant mutations. PHI-101 potently inhibits FLT3 single activating mutations (ITD or TKD mutants) and has inhibitory activity against FLT3 double (ITD/D835Y or ITD/F691L) and triple (ITD/D835Y/F691L) resistance mutations. PHI-101 has potential for research in relapsed or refractory acute myeloid leukemia (AML)[1].

REFERENCES

[1]. Nam K Y, et al. PHI-101 Is a Potent Third-Generation FLT3 Inhibitor Developed to Overcome Resistance in Acute Myeloid Leukemia[J]. Blood, 2020, 136: 28.

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