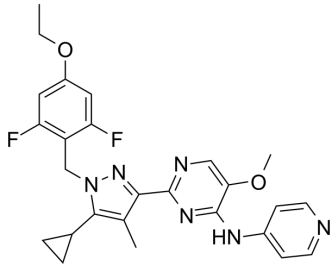
BAY-320

Cat. No.:	HY-104000		
CAS No.:	1445830-50-1		
Molecular Formula:	$C_{26}H_{26}F_2N_6O_2$		
Molecular Weight:	492.52		
Target:	Others		
Pathway:	Others		
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 : 83.33 mg/mL (169.19 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0304 mL	10.1519 mL	20.3037 mL
	5 mM	0.4061 mL	2.0304 mL	4.0607 mL
	10 mM	0.2030 mL	1.0152 mL	2.0304 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 (4.22 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	BAY-320 is a Bub1 inhibitor, with an IC_{50} of 680 nM for human Bub1 in the presence of 2 mM ATP.
IC_{50} & Target	IC50: 680 nM (human Bub1, 2 mM ATP)[1]

REFERENCES

[1]. Baron AP, et al. Probing the catalytic functions of Bub1 kinase using the small molecule inhibitors BAY-320 and BAY-524. Elife. 2016 Feb 17;5. pii: e12187.

Caution: Product has not been fully validated for medical applications. For research use only.

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