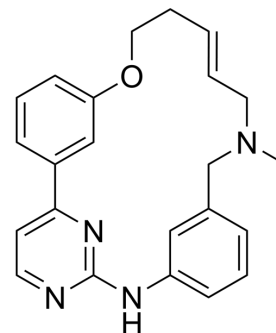


## Zotiraciclib

<b>Cat. No.:</b>	HY-15163
<b>CAS No.:</b>	1204918-72-8
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>24</sub> N <sub>4</sub> O
<b>Molecular Weight:</b>	372.46
<b>Target:</b>	JAK; CDK; FLT3
<b>Pathway:</b>	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; Cell Cycle/DNA Damage
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (134.24 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	<b>Preparing Stock Solutions</b>			1 mg	5 mg	10 mg
		1 mM		2.6849 mL	13.4243 mL	26.8485 mL
		5 mM		0.5370 mL	2.6849 mL	5.3697 mL
	10 mM		0.2685 mL	1.3424 mL	2.6849 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Zotiraciclib (TG02) is an orally active potent inhibitor of CDK2, JAK2 and FLT3 with IC <sub>50</sub> values of 13, 73, and 56 nM, respectively. Zotiraciclib can be used for the research of advanced leukemias and multiple myeloma <sup>[1][2]</sup> .
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### REFERENCES

[1]. William AD, et al. Discovery of kinase spectrum selective macrocycle (16E)-14-methyl-20-oxa-5,7,14,26-tetraazatetracyclo[19.3.1.1(2,6).1(8,12)]heptacos-1(25),2(26),3,5,8(27),9,11,16,21,23-decaene (SB1317/TG02), a potent inhibitor of cyclin dependent kinases (CDKs), Janus kinase 2 (JAK2), and fms-like tyrosine kinase-3 (FLT3) for the treatment of cancer. *J Med Chem.* 2012 Jan 12;55(1):169-96.

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

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