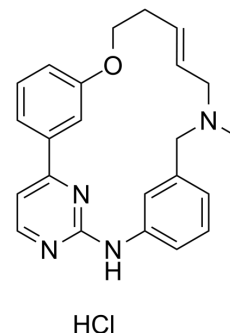


(E/Z)-Zotiraciclib hydrochloride

Cat. No.:	HY-15166A
CAS No.:	1321626-25-8
Molecular Formula:	C ₂₃ H ₂₅ ClN ₄ O
Molecular Weight:	408.92
Target:	CDK; JAK; FLT3
Pathway:	Cell Cycle/DNA Damage; Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt; Protein Tyrosine Kinase/RTK
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (81.51 mM); ultrasonic and warming and heat to 60°C				
		Solvent	Mass		
		Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4455 mL	12.2273 mL	24.4547 mL
		5 mM	0.4891 mL	2.4455 mL	4.8909 mL
	10 mM	0.2445 mL	1.2227 mL	2.4455 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 (6.11 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.11 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(E/Z)-Zotiraciclib ((E/Z)-TG02) hydrochloride is a potent CDK2, JAK2, and FLT3 inhibitor ^[1] .		
IC₅₀ & Target	CDK2	JAK2	FLT3

CUSTOMER VALIDATION

- Science. 2017 Dec 1;358(6367):eaan4368.
- Cancers (Basel). 2022 Mar 19;14(6):1575.

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- Mol Cancer Res. 2020 Oct;18(10):1512-1521.
 - ACS Chem Biol. 2016 Jun 17;11(6):1710-9.
 - J Neurosurg Pediatr. 2021 Sep 3;1-10.

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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;55(1):169-196.

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

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