Enitociclib

Cat. No.:	HY-103019		
CAS No.:	1610358-56-9		
Molecular Formula:	$C_{19}H_{18}F_{2}N_{4}O_{2}S$		
Molecular Weight:	404.43		
Target:	CDK		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4726 mL	12.3631 mL	24.7262 ml
	5 mM	0.4945 mL	2.4726 mL	4.9452 mL
	10 mM	0.2473 mL	1.2363 mL	2.4726 mL
Please refer to the s	olubility information to select the app	propriate solvent.		
	t one by one: 10% DMSO >> 40% PEC ng/mL (6.18 mM); Clear solution	G300 >> 5% Tween-8) >> 45% saline	
	one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) ng/mL (6.18 mM); Clear solution			
	t one by one: 10% DMSO >> 90% cor			

BIOLOGICAL ACTIVITY				
Description	Enitociclib ((+)-Enitociclib) is an enanthiomer of BAY-1251152 with rotation (+). Enitociclib is a potent and selective CDK9 inhibitor with an IC ₅₀ of 3 nM. Enitociclib has anti-tumour activity ^{[1][2]} .			
IC₅₀ & Target	CDK9/CycT1 3 nM (IC ₅₀)			
In Vitro	Enitociclib (Example 2) inhibits HeLa, HeLa-MaTu-ADR, NCI-H460, DU145, Caco-2, B16F10, A2780 and MOLM-13 cells			

Rotation(+)

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	An efficient inhibition o of diffuse large B-cell ly	proliferation with IC ₅₀ values of 110 nM, 33 nM, 75 nM, 33 nM, 62 nM, 240 nM, 110 nM and 29 nM, respectively ^[1] . An efficient inhibition of the proliferation of both ABC (Activated B-cell type) and GCB (Germinal-centre B-cell type) subtypes of diffuse large B-cell lymphoma (DLBCL) by Enitociclib (Compound A') ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Treatment to Control ragood tolerability ^[2] .	Enitociclib (Compound A'; 10 mg/kg; intravenous injection; once every seven days; for 14 days; female SCID mice) reaches a Treatment to Control ratios (T/C) by area of 0.29 and a T/C by weight of 0.24. Enitociclib inhibits tumour growth and had good tolerability ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Female SCID mice with OCI-LY-3 cells ^[2]		
	Dosage:	10 mg/kg		
	Administration:	Intravenous injection; once every seven days; for 14 days		
	Result:	Inhibited tumour growth and had good tolerability.		

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2023 May 26.
- Oncotarget. 2023 Dec 20:14:997-1008.

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REFERENCES

[1]. Ulrich LÜCKING, et al. 5-fluoro-n-(pyridin-2-yl)pyridin-2-amine derivatives containing a sulfoximine group. WO2014076091A1.

[2]. Use of Arne Scholz, et al. 5-fluoro-4-(4-fluoro-2-methoxyphenyl)-n-{4-[(s-methylsulfonimidoyl)methyl]pyridin-2-yl}pyridin-2-amine for treating diffuse large b-cell lymphoma. WO2019158517A1.

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

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