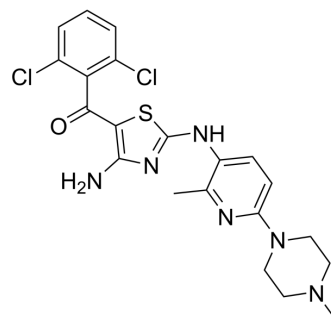


ZNL-05-044

Cat. No.:	HY-155874
Molecular Formula:	C ₂₁ H ₂₂ Cl ₂ N ₆ OS
Molecular Weight:	477.41
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (209.46 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.0946 mL	10.4732 mL	20.9464 mL
				5 mM	0.4189 mL	2.0946 mL	4.1893 mL
				10 mM	0.2095 mL	1.0473 mL	2.0946 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 (5.24 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.24 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	ZNL-05-044 is a CDK11 inhibitor with an IC ₅₀ s of 0.23 μM and 0.27 μM against CDK11A and CDK11B, respectively (NanoBRET assay). ZNL-05-044 leads to G2/M cell cycle arrest and impairs RNA splicing ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.23 μM (CDK11A in NanoBRET assay), 0.27 μM (CDK11B in NanoBRET assay), 135 nM (CDK4/cyclin D1 in Adapta activity assay), 189 nM (CDK9/cyclin T1 in Adapta activity assay), 217 nM (CDK6/cyclin D1 in Adapta activity assay) ^[1] Kd: 69 nM (CDK11A in KdELECT assay) ^[1]

REFERENCES

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

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