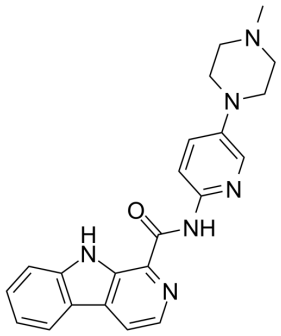
ZDLD20

Cat. No.:	HY-115909
CAS No.:	2762279-02-5
Molecular Formula:	$C_{22}H_{22}N_6O$
Molecular Weight:	386.45
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
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 : 25 mg/mL (64.69 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5877 mL	12.9383 mL	25.8766 mL
	5 mM	0.5175 mL	2.5877 mL	5.1753 mL
	10 mM	0.2588 mL	1.2938 mL	2.5877 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ZDLD20, a β-carboline, is orally active and selective CDK4/CycD3 inhibitor with an IC_{50} value of 6.51 μM. ZDLD20 exhibits potent anti-HCT116 activity including inhibition of colony formation, inhibition of invasion and migration, inducing of apoptosis, and arresting of G1 phase in cell cycle. ZDLD20 exhibits potent anticancer activity[1].

IC_{50} & Target

CDK4/CycD3
6.51 μM (IC_{50})

REFERENCES

[1]. Deping Li, et al. Facile synthesis of C1-substituted β-carbolines as CDK4 inhibitors for the treatment of cancer. Bioorg Chem. 2022 Apr;121:105659.

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

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