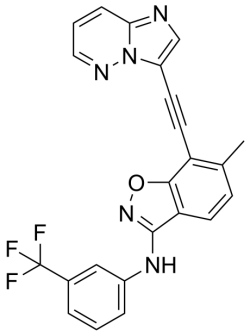
DDR1-IN-6



Cat. No.:	HY-133670
CAS No.:	2416021-47-9
Molecular Formula:	$C_{23}H_{14}F_3N_5O$
Molecular Weight:	433.39
Target:	Discoidin Domain Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (23.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3074 mL	11.5370 mL	23.0739 mL
	5 mM	0.4615 mL	2.3074 mL	4.6148 mL
	10 mM	0.2307 mL	1.1537 mL	2.3074 mL

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

BIOLOGICAL ACTIVITY

Description

DDR1-IN-6 is a selective Discoidin Domain Receptor family, member 1 (DDR1) inhibitor with an IC_{50} of 9.72 nM. DDR1-IN-6 inhibits auto-phosphorylation DDR1b (Y513) with an IC_{50} of 9.7 nM. DDR1-IN-6 has anti-cancer activity[1]. DDR1-IN-6 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

DDR1
9.72 nM (IC_{50})

In Vitro

DDR1-IN-6 (compound 1; for 24 hours) inhibits collagen production in human hepatic stellate cell LX-2 (IC_{50}=13 nM)[1].
DDR1-IN-6 (72 hours) has cytotoxicity in LX-2 cells (CC_{50}=3 μM)[1].
DDR1-IN-6 (0-30 μM) has anti-proliferation effects on primary tumor cells freshly isolated from PC-07-0024 (IC_{50}=5.7 μM of 3 days; IC_{50}=2.65 μM of 6 days) and LU-01-0523 derived xenograft (PDX) tumor model (IC_{50}>30 μM of 3 days; IC_{50}>30 μM of 6 days)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Aleksandr M. Aliper, et al. Kinase inhibitors. WO2020079652A1.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA