# DDR1-IN-5

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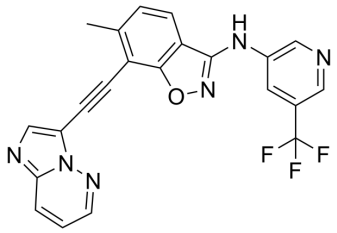
|---|---|
| **Cat. No.:** | HY-133669 |
| **CAS No.:** | 2416022-90-5 |
| **Molecular Formula:** | $C_{22}H_{13}F_3N_6O$ |
| **Molecular Weight:** | 434.37 |
| **Target:** | Discoidin Domain Receptor |
| **Pathway:** | Protein Tyrosine Kinase/RTK |
| **Storage:** | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 2.78 mg/mL (6.40 mM; ultrasonic and warming and heat to 60°C)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.3022 mL | 11.5109 mL | 23.0218 mL |
| | 5 mM | 0.4604 mL | 2.3022 mL | 4.6044 mL |
| | 10 mM | --- | --- | --- |

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

## BIOLOGICAL ACTIVITY

**Description**

DDR1-IN-5 is a selective Discoidin Domain Receptor family, member 1 (DDR1) inhibitor with an $IC_{50}$ of 7.36 nM. DDR1-IN-5 inhibits auto-phosphorylation DDR1b (Y513) with an $IC_{50}$ of 4.1 nM. DDR1-IN-5 has anti-cancer activity[1]. DDR1-IN-5 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
7.36 nM ($IC_{50}$)

**In Vitro**

DDR1-IN-5 (compound 121; for 24 hours) inhibits collagen production in human hepatic stellate cell LX-2 ($IC_{50}$=62 nM)[1].
DDR1-IN-5 (72 hours) has cytotoxicity in LX-2 cells ($CC_{50}$>40 μM)[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.



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