M2N12

| Cat. No.: | HY-128769 | | |
|--------------------|--|-------|----------|
| CAS No.: | 2376577-06 | -7 | |
| Molecular Formula: | C ₂₀ H ₁₆ ClN ₅ C | 2 | |
| Molecular Weight: | 393.83 | | |
| 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 |

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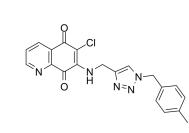
MedChemExpress

SOLVENT & SOLUBILITY

| | | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg | |
|------------------------------|---|-------------------------------|------------|------------|-----------|--|
| Preparing Stock Solutions | 1 mM | 2.5392 mL | 12.6958 mL | 25.3917 mL | | |
| | | 5 mM | 0.5078 mL | 2.5392 mL | 5.0783 mL | |
| | | 10 mM | 0.2539 mL | 1.2696 mL | 2.5392 mL | |
| | Please refer to the solubility information to select the appropriate solvent. | | | | | |

| BIOLOGICAL ACTIVITY | | | | |
|---------------------|--|--|--|--|
| BIOLOGICALMENT | | | | |
| Description | M2N12 is a potent and highly selective cell division cycle 25C protein phosphatase (Cdc25C) inhibitor with an IC ₅₀ value of 0.09 μM. M2N12 also has promising activity against Cdc25A and Cdc25B with IC ₅₀ values of 0.53 μM and 1.39 μM, respectively. M2N12 has anti-tumor activity and can be used for cancer research ^[1] . | | | |
| In Vitro | M2N12 (0-20 μM; 72 hours) has cytotoxic activity against five tumor cell lines and a normal cell line including A-549, MDA-MB- 231, KB, KB-VIN, MCF-7 and HBE (IC ₅₀ =3.92 μM, 4.63 μM, 5.05 μM, 6.81 μM, 4.71 μM and 6.00 μM, respectively) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | |

REFERENCES



[1]. Jing L, et al. Identification of highly potent and selective Cdc25 protein phosphatases inhibitors from miniaturization click-chemistry-based combinatorial libraries. Eur J Med Chem. 2019 Sep 14;183:111696.

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

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