

Product Datasheet

M2N12

Catalog No. **BP-02005** · CAS **2376577-06-7** · Form **free base** · Physical state **solid** · Color **brown to red** · Version **1.0** · Revision **2026-09-10**

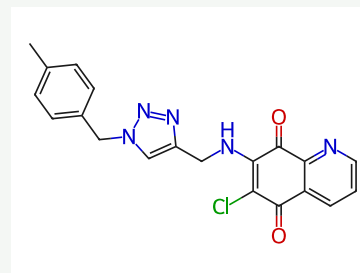
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Target CDK	Research area Cancer
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Molecular formula **C₂₀H₁₆ClN₅O₂**

Molecular weight **393.8260**

STRUCTURE



DESCRIPTION

M2N12 is a potent and highly selective cell division cycle 25C protein phosphatase (Cdc25C) inhibitor with an IC₅₀ value of 0.09 μM. M2N12 also has promising activity against Cdc25A and Cdc25B with IC₅₀ values of 0.53 μM and 1.39 μM, respectively. M2N12 has anti-tumor activity and can be used for cancer research.

BIOLOGICAL ACTIVITY

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 (IC₅₀=3.92 μM, 4.63 μM, 5.05 μM, 6.81 μM, 4.71 μM and 6.00 μM, respectively)

SOLUBILITY

Soluble in DMSO : 11.11 mg/mL

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.

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