

Product Datasheet

LY-3177833

Catalog No. **BP-02485** · CAS **1627696-51-8** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

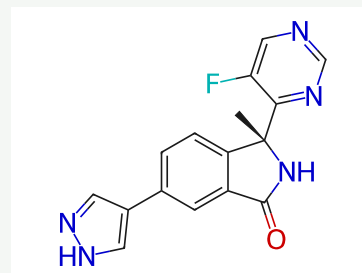
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Target CDK	Research area Cancer
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Molecular formula **C₁₆H₁₂FN₅O**

Molecular weight **309.2978**

STRUCTURE



DESCRIPTION

LY3177833 (Example 4) is an orally active CDC7 and pMCM2 inhibitor with IC₅₀ values of 3.3 nM and 290 nM, respectively. LY3177833 is a senescence inducer .

BIOLOGICAL ACTIVITY

In Vitro

LY3177833 (10 μM; 4 days) increases SA-β-gal content in Hep3B cells.

In Vivo

LY3177833 (Example 4; 10.4-31.2 mg/kg; oral gavage; twice a day; for 2 weeks; female athymic Balb/c nude mice with SW620 cells) treatment causes significant tumor regression in a dose-dependent manner. Also, no significant tumor growth is observed for 2 weeks after dosing cessation.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1].Robert Dean Dally, et al. CDC7 Inhibitors. Patent WO2014143601A1.

[2].Li X, et al. First-generation species-selective chemical probes for fluorescence imaging of human senescence-associated β-galactosidase. Chem Sci. 2020 Jun 17;11(28):7292-7301.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com

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