

Product Datasheet

LLY-283

Catalog No. **BP-01962** · CAS **2040291-27-6** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-09**

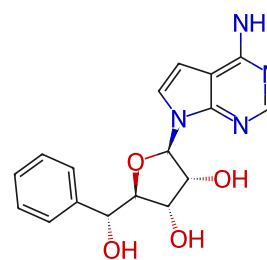
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Target Histone Methyltransferase	Research area Cancer
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Molecular formula **C₁₇H₁₈N₄O₄**

Molecular weight **342.3492**

STRUCTURE



DESCRIPTION

LLY-283 is an effective and selective inhibitor of protein arginine methyltransferase 5 (PRMT5) (IC₅₀: 22 nM and a K_d: 6 nM for PRMT5:MEP50 complex). It shows antitumor activity.

BIOLOGICAL ACTIVITY

In Vitro

LLY-283 is a potent, oral and selective arginine methyltransferase 5 (PRMT5) inhibitor, with an IC₅₀ of 22 nM in vitro and 25 nM in cells, as well as a K_d of 6 nM for PRMT5:MEP50 complex in vitro; LLY-283 inhibits the proliferation of A375 cell with an IC₅₀ of 46 nM.

In Vivo

LLY-283 (20 mg/kg; p.o., QD (once a day)) causes a significant inhibition on tumor growth in mice bearing A375 cells after treatment for 28 days.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Zahid Q. Bonday, et al. LLY-283, a Potent and Selective Inhibitor of Arginine Methyltransferase 5, PRMT5, with Antitumor Activity. ACS Med. Chem. Lett., 2018, 9 (7), pp 612-617.

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Lot CoA and SDS are separate documents.