

Product Datasheet

GSK3685032

Catalog No. **BP-02228** · CAS **2170137-61-6** · Form **free base** · Physical state **other** · Color **White to off-white** · Version **1.0** · Revision **2026-09-03**

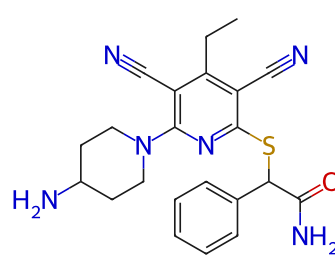
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Target DNA Methyltransferase	Research area Cancer
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Molecular formula **C₂₂H₂₄N₆OS**

Molecular weight **420.5310**

STRUCTURE



DESCRIPTION

GSK-3685032 is a non-time-dependent, noncovalently, first-in-class reversible DNMT1-selective inhibitor, with an IC₅₀ of 0.036 μM.

BIOLOGICAL ACTIVITY

GSK3685032, a potent first-in-class DNMT1-selective inhibitor that was shown via crystallographic studies to compete with the active-site loop of DNMT1 for penetration into hemi-methylated DNA between two CpG base pairs.

SOLUBILITY

Soluble in DMSO

In vitro DMSO : 25 mg/mL

REFERENCES

[1]. Pappalardi MB, et al. Discovery of a first-in-class reversible DNMT1-selective inhibitor with improved tolerability and efficacy in acute myeloid leukemia. Nat Cancer. 2021;2(10):1002-1017.

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