

Product Datasheet

KO-539

Catalog No. **BP-01973** · CAS **2134675-36-6** · Form **free base** · Physical state **solid** · Color **Off-white to light yellow** · Version **1.0** · Revision **2026-09-09**

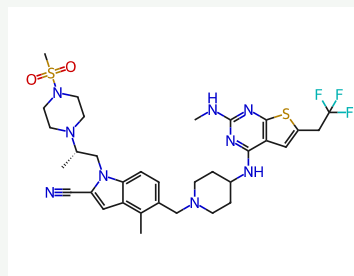
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Target Epigenetic Reader Domain	Research area Cancer
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Molecular formula **C₃₃H₄₂F₃N₉O₂S₂**

Molecular weight **717.8710**

STRUCTURE



DESCRIPTION

Ziftomenib (KO-539) is a potent and selective menin inhibitor.

BIOLOGICAL ACTIVITY

Ziftomenib (KO-539) is an orally active menin-MLL interaction inhibitor with antitumor activities (WO2017161028A1, compound 151).

In Vitro

The mixed-lineage leukemia (MLL) protein is a histone methyltransferase critical for the epigenetic regulation of gene transcription. Many acute leukemias, including acute myeloblastic leukemia (AML), acute lymphoblastic leukemia (ALL) and mixed-lineage leukemia (MLL), are characterized by the presence of chimeric MLL fusion proteins that result from chromosomal translocations of the MLL gene located at chromosome 11, band q23 (11q23). MLL fusion proteins lack the original histone methyltransferase activity of the C-terminus of MLL and gain the ability to regulate transcription of numerous oncogenes, including HOX and MEIS1, resulting in increased cell proliferation and decreased cell differentiation, ultimately leading to leukemogenesis.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Rausch, Johanna et al. "Menin inhibitor ziftomenib (KO-539) synergizes with drugs targeting chromatin regulation or apoptosis and sensitizes acute myeloid leukemia with MLL rearrangement or NPM1 mutation to venetoclax." Haematologica vol. 108,10 2837-2843. 1 Oct. 2023, doi:10.3324/haematol.2022.282160
- [2]. Tao Wu, et al. Substituted inhibitors of menin-mlt and methods of use. WO2017161028A1.

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Lot CoA and SDS are separate documents.