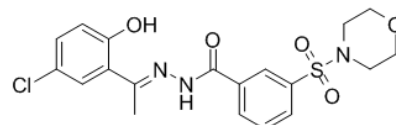


Product Name : SP2509
Cat. No. : PC-43122
CAS No. : 1423715-09-6
Molecular Formula : C₁₉H₂₀ClN₃O₅S
Molecular Weight : 437.8972
Target : Histone Demethylase
Solubility : DMSO: ≥ 33 mg/mL



Biological Activity

SP2509 is a potent, selective histone demethylase **LSD1 (KDM1A)** inhibitor with IC₅₀ of 13 nM, shows no activity against MAOA, MAOB, LDH and glucose oxidase.

SP2509 inhibits the colony growth of OCI-AML3 significantly more than of the other AML cell-types, induces more apoptosis of AML cells expressing mutant NPM1 than mixed-lineage leukemia fusion oncoproteins.

SP2509 significantly improves the survival of immune-depleted mice model of AML.

SP2509 is synergistically lethal against cultured and primary AML blasts combined with panobinostat.

References

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Khanal T, et al. *Sci Rep*. 2017 Sep 6;7(1):10662.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com