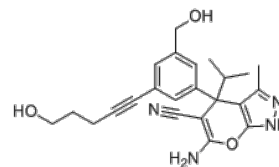


Product Name : SHIN2
Cat. No. : PC-38150
CAS No. : 2204289-53-0
Molecular Formula : C₂₃H₂₆N₄O₃
Molecular Weight : 406.486
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

SHIN2 is a folate-competitive, cell-permeable inhibitor of human **SHMT1/2** with improved pharmacokinetic properties over SHIN1.

SHIN2 increases survival in NOTCH1-driven mouse primary T-ALL in vivo.

Low dose methotrexate sensitizes Molt4 human T-ALL cells to SHIN2, and cells rendered methotrexate resistant in vitro show enhanced sensitivity to SHIN2.

SHIN2 and methotrexate synergize in mouse primary T-ALL and in a human patient-derived xenograft in vivo, increasing survival.

References

Juan C García-Cañaveras, et al. *Leukemia*. 2021 Feb;35(2):377-388.

Gregory S Ducker, et al. *Proc Natl Acad Sci U S A*. 2017 Oct 24;114(43):11404-11409.

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

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