

Store at
-20C
#46080**UNC1999**

1 mg



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For Research Use Only. Not for Use in Diagnostic Procedures.

Background

UNC1999 inhibits EZH2 and EZH1 histone-lysine N-methyltransferase activity through competitive inhibition of the cofactor S-Adenosyl-L-methionine (SAM). The UNC1999 inhibitor displays potent specificity relative to other histone methyltransferases. IC₅₀ values for EZH2 and EZH1 are 2 nM and 45 nM, respectively (1). Research studies demonstrate that UNC1999 effectively blocks histone H3 lysine 27 (H3K27) methylation. UNC1999 induces anti-proliferation, cell differentiation, and apoptosis, while exhibiting low cellular toxicity (1,2).

Molecular Formula

C₃₃H₄₃N₇O₂

Molecular Weight

569.8 g/mol

Purity

>98%

CAS

1431612-23-5

Solubility

Soluble in DMF at 1mg/ml and EtOH at 100ug/ml.

Storage

Store lyophilized or in solution at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.

Directions for Use

UNC1999 is supplied as a lyophilized powder. For a 5 mM stock, reconstitute the 1 mg in 350.97 µl DMSO. Working concentrations and length of treatment can vary depending on the desired effect, but it is typically used at 5 nM -5 µM for 2-48 hr.

Background References

1. Konze, K.D. et al. (2013) *ACS Chem Biol* 8, 1324-34.
2. Xu, B. et al. (2015) *Blood* 125, 346-57.

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