

Store at
-20C
#66244**GSK343**

1 mg



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

Background

GSK343 inhibits EZH2 and EZH1 histone-lysine N-methyltransferase activity through competitive inhibition of the cofactor S-Adenosyl-L-methionine (SAM). IC₅₀ values for EZH2 and EZH1 are 4 nM and 60 nM, respectively (1). Research studies show that GSK343 displays more than 1000-fold selectivity relative to other methyltransferases (1,2). These studies demonstrate that GSK343 induces cancer cell autophagy and enhances the anti-cancer effects of the multi-kinase inhibitor, sorafenib (3).

Molecular Formula

C₃₁H₃₉N₇O₂

Molecular Weight

541.7 g/mol

Purity

>98%

CAS

1346704-33-3

Solubility

Soluble in DMSO at 15mg/ml and EtOH at 2mg/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

GSK343 is supplied as a lyophilized powder. For a 5 mM stock, reconstitute the 1 mg in 369.21 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. Amatangelo, M.D. et al. (2013) *Cell Cycle* 12, 2113-9.
3. Liu, T.P. et al. (2015) *Anticancer Drugs* 26, 139-47.

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