
Product Data Sheet

Product Name: YUKA1
Cat. No.: GC37956

Chemical Properties

Cas. No. 708991-09-7

SMILES C=CCOC1=C(CNN2C(S)=NN=C2)C=CC=C1OC

Formula $C_{13}H_{16}N_4O_2S$ M.Wt 292.36

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

YUKA1 is a potent and cell permeable Lysine demethylase 5A (KDM5A) inhibitor, with an IC₅₀ of 2.66 μM, less active on KDM5C (IC₅₀, 7.12 μM), and is inactive on KDM5B, KDM6A or KDM6B. YUKA1 increases H3K4me3 levels in human cells with anti-cancer activity[1]. IC₅₀: 2.66 μM (KDM5A), 7.12 μM (KDM5C)[1]

[1]. Gale M, et al. Screen-identified selective inhibitor of lysine demethylase 5A blocks cancer cell growth and drug resistance. *Oncotarget*. 2016 Jun 28;7(26):39931-39944.

Caution: Product has not been fully validated for medical applications. For research use only.

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