

Product Data Sheet

Product Name: CPTH2
Cat. No.: GC39365

Chemical Properties

Cas. No. 357649-93-5

SMILES C1C=CC=C(C2=CSC(N/N=C3CCCC/3)=N2)C=C1

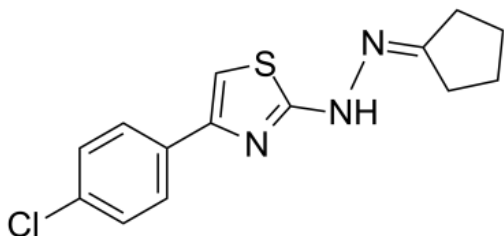
Formula $C_{14}H_{14}ClN_3S$ M.Wt 291.8

Solubility DMSO: 25 mg/mL (85.68 mM); Storage 4°C, protect from light
Water: < 0.1 mg/mL (insoluble)

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 sizes: ship with RT, or blue ice upon request.

Structure



Background

CPTH2 is a potent histone acetyltransferase (HAT) inhibitor and selectively inhibits the acetylation of histone H3 by recombinant human Gcn5 in a substrate-competitive manner. CPTH2 induces apoptosis and decreases the invasiveness of a clear cell renal carcinoma (ccRCC) cell line through the inhibition of acetyltransferase p300 (KAT3B)[1][2].

[1]. Cocco E, et al. KAT3B-p300 and H3AcK18/H3AcK14 levels are prognostic markers for kidney

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

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ccRCC tumor aggressiveness and target of KAT inhibitor CPTH2. Clin Epigenetics. 2018 Apr 4;10:44.
[2]. Chimenti F, et al. A novel histone acetyltransferase inhibitor modulating Gcn5 network:
cyclopentylidene-[4-(4'-chlorophenyl)thiazol-2-yl]hydrazone. J Med Chem. 2009 Jan 22;52(2):530-6.

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