

Product Data Sheet

Product Name: CPTH2-d₄

Cat. No.: GC81872

Chemical Properties

Cas. No.

Formula C₁₄H₁₀D₄CIN₃S

M.Wt 295.82

Solubility

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

CPTH2 -d 4 is the deuterated-labeled CPTH2. CPTH2 is a potent histone acetyltransferase (HAT) inhibitor. CPTH2 selectively inhibits the acetylation of histone H3 by Gcn5. 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].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of

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

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drugs.

References:

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