

Product Data Sheet

Product Name: mCPX
Cat. No.: GC79574

Chemical Properties

Cas. No. 1351572-56-9

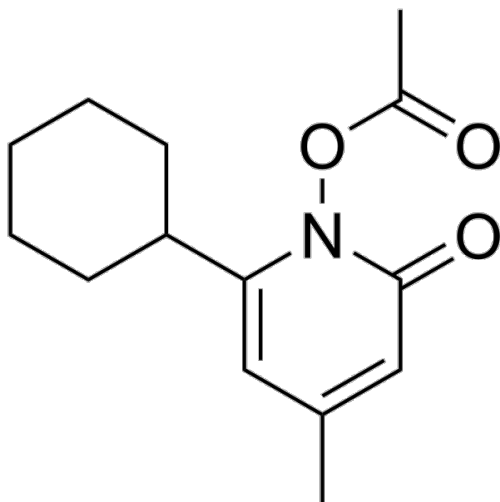
Formula $C_{14}H_{19}NO_3$ M.Wt 249.31

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

mCPX is a prodrug of the antifungal agent Ciclopirox olamine (CPX). CPX exhibits bacteriostatic and iron-chelating activities, while mCPX enhances the iron stability of CPX. mCPX inherits the core mechanism pathway of CPX and can induce EBV lytic reactivation in EBV + gastric cancer cells via the hypoxia pathway (HIF-1 α). mCPX is applicable to research related to EBV-positive gastric cancer [1].

In Vivo, mCPX exhibits superior in vivo antitumor activity to CPX in the SNU719 xenograft mouse model [1].

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

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In Vitro, mCPX induces EBV lytic cycle in SNU719 and AGSBX1 EBV+ gastric cancer cell lines with activity comparable to CPX, and has significantly greater resistance to iron-mediated inactivation^[1].

References:

[1]. Zhuang Y, et al. Targeting lytic cycle with ciclopirox derivative in Epstein-Barr Virus+ gastric cancer. Cancer Research. 2026 Apr 3;86(7_Supplement):213-.

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