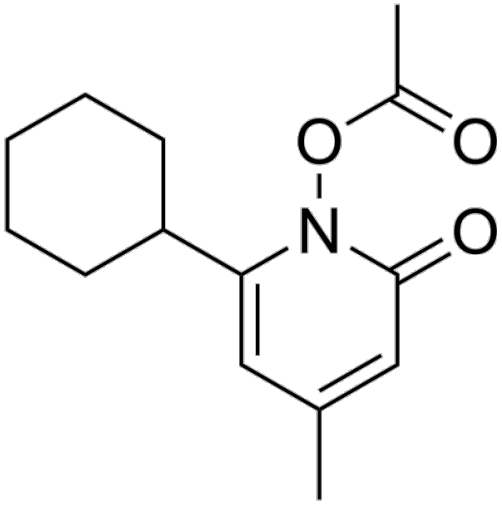
Product Data Sheet

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°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

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-1α). 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-.