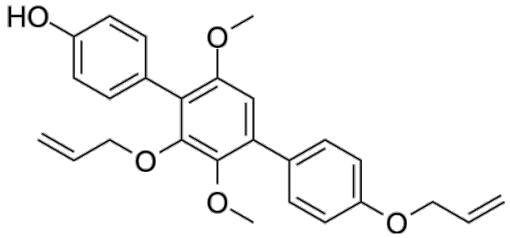
Product Data Sheet

Product Name: CHNQD-00824
Cat. No.: GC79871

Chemical Properties

Cas. No.	2222643-74-3		
Formula	$C_{26}H_{26}O_5$	M.Wt	418.48
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

CHNQD-00824 is a Terphenyllin derivative with potent anticancer effect. CHNQD-00824 inhibits the proliferation and migration of cancer cells via DNA damage. CHNQD-00824 triggers apoptosis and inhibits Doxycin Hydrochloride (DOX)-induced liver-specific enlargement in zebrafish embryos. CHNQD-00824 can be used for cancer research, such as liver and breast cancer [1].

In Vivo, CHNQD-00824 (0-15 μM, from 24 to 48 h post-fertilization) causes cell death via DNA damage in Zebrafish[1]. CHNQD-00824 (1.25-5 μM, from day 3 to day 7 post-fertilization) inhibits

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DOX-induced liver-specific enlargement in zebrafish embryos in a dose-dependent manner[1].

In Vitro, CHNQD-00824 (72 h) exhibits potent inhibitory activity against a panel of cancer cells, including RCC4, HeLa, Hep G2, U2OS, U251, DU145, TE-1, BT549, HCT8, and MCF7 cells, with IC_{50} values of 2.65, 0.45, 7.64, 0.44, 5.43, 0.91, 4.35, 0.16, 0.61, and 3.66 μM[1]. CHNQD-00824 (0-8 μM, 7-13 days) dose-dependently inhibits colony formation in BT549 cells[1]. CHNQD-00824 (0-10 μM, 0-24 h) inhibits cell migration of BT549 cells in a time- and concentration dependent manner[1]. CHNQD-00824 (0-8 μM, 24 h) induces G2 phase cell cycle arrest, and induces apoptosis via DNA damage in a concentration- and caspase-dependent manner in BT549 cells[1].

References:
[1]. Cao XZ, et al. A Terphenyllin Derivative CHNQD-00824 from the Marine Compound Library Induced DNA Damage as a Potential Anticancer Agent. Mar Drugs. 2023 Sep 27;21(10):512.

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