

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

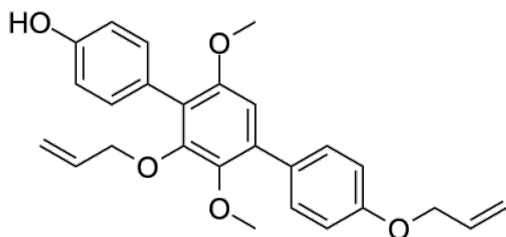
Solubility

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 Doxycycline 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 μ M, from 24 to 48 h post-fertilization) causes cell death via DNA damage in Zebrafish [1]. CHNQD-00824 (1.25-5 μ M, from day 3 to day 7 post-fertilization) inhibits

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

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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 IC₅₀ values of 2.65, 0.45, 7.64, 0.44, 5.43, 0.91, 4.35, 0.16, 0.61, and 3.66 μ M^[1]. CHNQD-00824 (0-8 μ M, 7-13 days) dose-dependently inhibits colony formation in BT549 cells^[1]. CHNQD-00824 (0-10 μ M, 0-24 h) inhibits cell migration of BT549 cells in a time- and concentration dependent manner^[1]. CHNQD-00824 (0-8 μ M, 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.

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