

Product Data Sheet

Product Name: Dalpiciclib

Cat. No.: GC63419

Chemical Properties

Cas. No. 1637781-04-4

Formula $C_{25}H_{30}N_6O_2$

M.Wt 446.54

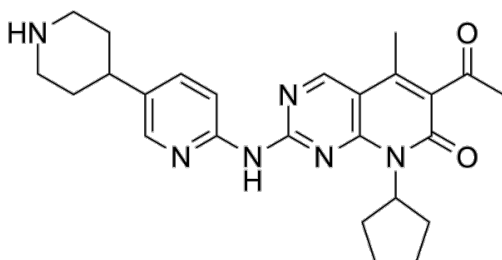
Solubility

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

Dalpiciclib (SHR-6390) is a highly selective, orally bioavailable CDK4/6 inhibitor with comparable potencies against CDK4 (IC₅₀=12.4 nM) and CDK6 (IC₅₀=9.9 nM). Dalpiciclib exerts potent antitumor activity in esophageal squamous cell carcinoma by inhibiting phosphorylated tumor-suppressor retinoblastoma protein (Rb) and inducing G1 cell cycle arrest[1][2].

Dalpiciclib (SHR-6390) (0-4 μM) inhibits cell proliferation in a dose-dependent manner[2]. Dalpiciclib (24 hours) significantly blocks phosphorylation of Rb at serine 780 in relative sensitive Eca 109 and KYSE-510 cell lines, but not in relative resistant Eca 9706 cell line. Dalpiciclib induces cell cycle arrest

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

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at G1 phase in Eca 109 and KYSE-510 cell lines[2].

Dalpiciclib (SHR-6390) (150 mg/kg; oral gavage; weekly for 3 weeks) shows antitumor activity against ESCC xenografts[2]. Dalpiciclib combines with Paclitaxel (PTX) or Cisplatin (CDDP) offered synergistic inhibitory effects in ESCC xenografts[2].

[1]. Zhang P, et al. A phase 1 study of dalpiciclib, a cyclin-dependent kinase 4/6 inhibitor in Chinese patients with advanced breast cancer. Biomark Res. 2021;9(1):24. Published 2021 Apr 12.

[2]. Wang J, et al. CDK4/6 inhibitor-SHR6390 exerts potent antitumor activity in esophageal squamous cell carcinoma by inhibiting phosphorylated Rb and inducing G1 cell cycle arrest. J Transl Med. 2017;15(1):127. Published 2017 Jun 2.

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