

Product Data Sheet

Product Name: Dalpiciclib hydrochloride

Cat. No.: GC65369

Chemical Properties

Cas. No.

Formula C₂₅H₃₁ClN₆O₂

M.Wt 483.01

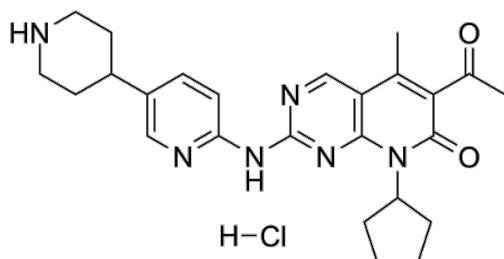
Solubility DMSO : 5 mg/mL (10.35 mM;
ultrasonic and warming and heat to
60°C)

Storage 4°C, away from moisture

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) hydrochloride is an orally active and highly selective inhibitor of CDK4 and 6 with IC₅₀ values of 12.4 nM and 9.9 nM, respectively[1][2]. Dalpiciclib hydrochloride shows antitumor activity against breast cancer and esophageal squamous cell carcinoma[1][2][3][4].

Dalpiciclib hydrochloride (0-4 μM, 72 h) inhibits cell proliferation in a dose-dependent manner[3]. Dalpiciclib hydrochloride (0-10 μM, 6 d) inhibits the proliferation of retinoblastoma-positive

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

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tumor cell lines[4].

Dalpiciclib hydrochloride (oral gavage; 150 mg/kg; once weekly; 3 weeks) shows antitumor activity against ESCC xenografts[3].Dalpiciclib hydrochloride combined with Paclitaxel (PTX) or Cisplatin (CDDP) offer synergistic inhibitory effects in ESCC xenografts[3].Dalpiciclib hydrochloride (oral gavage; 37.5 mg/kg, 75 mg/kg, 150 mg/kg; once daily; 30 days) shows antitumor activity in human xenograft models [4].

- [1]. Jose Manuel Perez-Garcia, et al. Perez-Garcia JM, Cortes J, Llombart-Cussac A. CDK4/6 inhibitors in breast cancer: spotting the difference. Nat Med. 2021 Nov;27(11):1868-1869.
- [2]. Pin Zhang, 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 Apr 12;9(1):24.
- [3]. Jiayuan Wang, 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 Jun 2;15(1):127.
- [4]. Fei Long, et al. Preclinical characterization of SHR6390, a novel CDK 4/6 inhibitor, in vitro and in human tumor xenograft models. Cancer Sci. 2019 Apr;110(4):1420-1430.

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