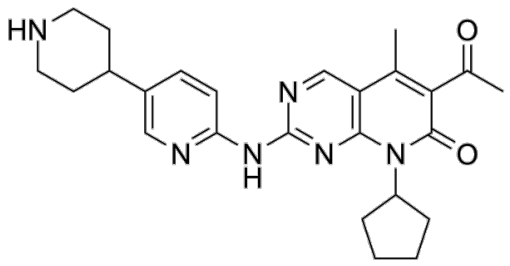
Product Data Sheet

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

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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.

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