

Product Data Sheet

Product Name: LQZ-7F
Cat. No.: GC72933

Chemical Properties

Cas. No. 354543-09-2

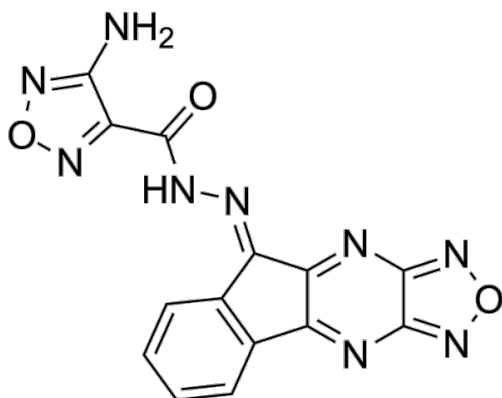
Formula $C_{14}H_7N_9O_3$ M.Wt 349.26

Solubility DMSO : 5 mg/mL (14.32 mM);
ultrasonic and warming and heat to 60°C) Storage -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

LQZ-7F, a survivin dimerization inhibitor, induces spontaneous apoptosis and synergizes with Docetaxel in prostate cancer cells. LQZ-7F dose-dependently inhibits survival of both PC-3 and C4-2 cells with IC₅₀s of 2.99 and 2.47 μM, respectively.

LQZ-7F could be hydrolyzed under acidic conditions[1]. LQZ-7F (2.5 μM, 72 hours) displays cytotoxicity towards human cancer cells (PC-3, C4-2) with the IC₅₀s of 2.99 μM and 2.74 μM,

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respectively[1].LQZ-7F effectively inhibits survival of all cancer cell lines with IC50 values ranging between 0.4 and 4.4 mM[2].LQZ-7F (2 μ M, 24 hours) disrupts microtubule structure and cause mitotic arrest in P3 cells[2].

LQZ-7F (i.p. injection; 25 mg/kg once every 3 days; 24 days) inhibits growth of xenograft tumor and may be due to its induction of surviving degradation in vivo[1].

References:

[1]. Robert Peery, et al. A novel survivin dimerization inhibitor without a labile drazone linker induces spontaneous apoptosis and synergizes with docetaxel in prostate cancer cells. Bioorg Med Chem.2022 Jul 1;65:116761.

[2]. Qi Jing, et al. Effective Targeting of the Survivin Dimerization Interface with Small-Molecule Inhibitors. Cancer Research. 2016 Jan. 76(2):453-462.

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