

Product Data Sheet

Product Name: YUM70
Cat. No.: GC62388

Chemical Properties

Cas. No. 423145-35-1

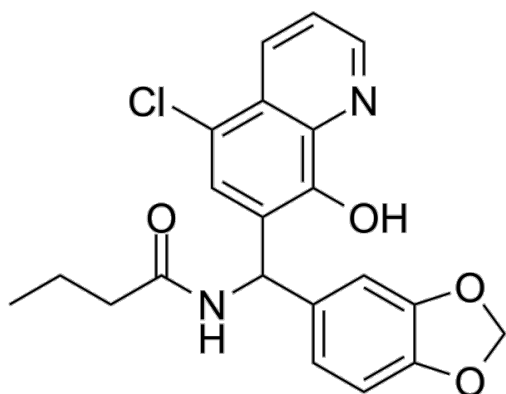
Formula $C_{21}H_{19}ClN_2O_4$ M.Wt 398.84

Solubility DMSO : 100 mg/mL (250.73 mM; Need ultrasonic) 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

YUM70 is a potent and selective inhibitor of glucose-regulated protein 78 (GRP78), with an IC₅₀ of 1.5 μM for inhibiting GRP78 ATPase activity of the full-length protein. YUM70 induces endoplasmic

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

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reticulum (ER) stress-mediated apoptosis in pancreatic cancer. YUM70 also has in vivo efficacy in a pancreatic cancer xenograft model[1].

YUM70 shows selective cytotoxicity for MIA PaCa-2, PANC-1, BxPC-3 cells (IC_{50} =2.8, 4.5, and 9.6 μ M, respectively) over normal pancreatic tissue-derived HPNE cells (IC_{50} >30 μ M)[1]. YUM70 (5 μ M; 24 h) induces endoplasmic reticulum (ER) stress-mediated apoptosis of MIA PaCa-2 cells[1].

YUM70 (30 mg/kg; i.p. 5 days a week for 7 weeks) inhibits tumor growth in a MIA PaCa-2 xenograft model[1]. YUM70 (15 mg/kg; i.v.) exhibits $t_{1/2}$ (1.40 h), CL (724.04 mL/h/kg), and V_{ss} (1162.73 mL/kg) in mice[1]. YUM70 (30 mg/kg; p.o.) exhibits bioavailability (6.71%), $t_{1/2}$ (2.74 h), and CL (9230.15 mL/h/kg) in mice[1].

[1]. Samanta S, et, al. The hydroxyquinoline analog YUM70 inhibits GRP78 to induce ER stress-mediated apoptosis in pancreatic cancer. Cancer Res. 2021 Feb 2;canres.1540.2020.

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