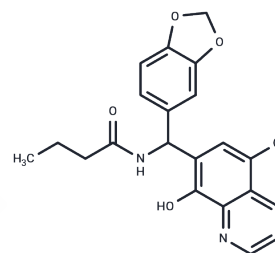


## YUM70

## Chemical Properties

CAS No. :	423145-35-1
Formula:	C <sub>21</sub> H <sub>19</sub> ClN <sub>2</sub> O <sub>4</sub>
Molecular Weight:	398.84
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	YUM70 is a potent and selective inhibitor of glucose-regulated protein 78 (GRP78), with an IC <sub>50</sub> of 1.5 μM for inhibiting GRP78 ATPase activity of the full-length protein. It induces endoplasmic reticulum (ER) stress-mediated apoptosis in pancreatic cancer.
Targets(IC <sub>50</sub> )	Apoptosis,HSP,GPCR
In vitro	YUM70, inhibited pancreatic cancer cell growth in vitro.YUM70 directly bound GRP78 and inactivated its function, resulting in ER stress-mediated apoptosis.?A YUM70 analog conjugated with BODIPY show co-localization of the compound with GRP78 in the ER.
In vivo	YUM70 in vivo efficacy in a pancreatic cancer xenograft model with no toxicity to normal tissues.YUM70 is a novel inducer of ER stress with preclinical efficacy as a monotherapy or in combination with topoisomerase and HDAC inhibitors in pancreatic cancer.

## Solubility Information

Solubility	DMSO: 100 mg/mL (250.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5073 mL	12.5364 mL	25.0727 mL
5 mM	0.5015 mL	2.5073 mL	5.0145 mL
10 mM	0.2507 mL	1.2536 mL	2.5073 mL
50 mM	0.0501 mL	0.2507 mL	0.5015 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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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