

LYG-202

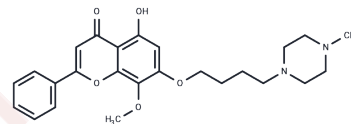
Chemical Properties

CAS No. : 1175077-25-4

Formula: C₂₅H₃₀N₂O₅

Molecular Weight: 438.52

Storage: Store at low temperature, Keep away from direct sunlight
 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	LYG-202 is a novel flavonoid with piperazine substitution and antitumor effects in vivo and in vitro. LYG-202 induced apoptosis in MCF-7, MDA-MB-231, and MDA-MB-435 cells, and increased intracellular ROS production.
Targets(IC50)	Apoptosis, ROS

Solubility Information

Solubility	Ethanol: 2.5 mg/mL (5.7 mM), Sonication is recommended. DMF: 14 mg/mL (31.93 mM), Sonication is recommended. DMSO: 4.39 mg/mL (10.01 mM), Sonication is recommended. DMF:PBS (pH7.2) (1:40): 0.12 mg/mL (0.27 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	2.2804 mL	11.402 mL	22.804 mL
5 mM	0.4561 mL	2.2804 mL	4.5608 mL
10 mM	0.228 mL	1.1402 mL	2.2804 mL
50 mM	0.0456 mL	0.228 mL	0.4561 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

Zeng S, et al. LYG-202, a new flavonoid with a piperazine substitution, shows antitumor effects in vivo and in vitro. *Biochem Biophys Res Commun.* 2009 Aug 7;385(4):551-6.

Chen Y, et al. LYG-202, a newly synthesized flavonoid, exhibits potent anti-angiogenic activity in vitro and in vivo. *J Pharmacol Sci.* 2010;112(1):37-45.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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