Data Sheet (Cat.No.T36314)

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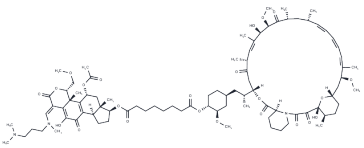
Wortmannin-Rapamycin Conjugate

Chemical Properties



CAS No. : 1067892-47-0
Formula: C88H131N3O23
Molecular Weight: 1599.014
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Phosphoinositide 3-kinase (PI3K) and mammalian target of rapamycin (mTOR) act synergistically in promoting cancer. Wortmannin is a potent inhibitor of PI3K enzymes, while rapamycin blocks mTOR Complex 1 TORC1. Wortmannin-rapamycin conjugate consists of analogs of 17-hydroxy wortmannin and rapamycin conjugated via a prodrug linker. Hydrolysis of the prodrug linker in vivo releases the inhibitors. The wortmannin-rapamycin conjugate inhibits the growth of HT-29 colon tumors and A498 renal tumors in mice better than rapamycin alone. Also, the conjugate, when given in combination with the VEGF-blocker bevacizumab, produces substantial regression of larger A498 tumors. Finally, the wortmannin-rapamycin conjugate is tolerated better than an equivalent mixture of the inhibitors.

Solubility Information

Solubility	Ethanol: 5 mg/mL DMF: 30 mg/mL DMSO: 20 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6254 mL	3.1269 mL	6.2539 mL
5 mM	0.1251 mL	0.6254 mL	1.2508 mL
10 mM	0.0625 mL	0.3127 mL	0.6254 mL
50 mM	0.0125 mL	0.0625 mL	0.1251 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.

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