# RedChemExpress

## Product Data Sheet

## Wortmannin-Rapamycin Conjugate 1

Cat. No.:	HY-132003	
CAS No.:	1067892-47-0	N-
Molecular Formula:	C <sub>88</sub> H <sub>131</sub> N <sub>3</sub> O <sub>23</sub>	
Molecular Weight:	1598.99	
Target:	Akt	A CONTRACT OF A
Pathway:	PI3K/Akt/mTOR	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	Wortmannin-Rapamycin Conjugate 1 (compound 7c) is a furan ring-opened derivative of wortmannin-rapamycin conjugate with potent antitumor activities and a fine water solubility. Wortmannin-Rapamycin Conjugate 1 can inhibit the AKT phosphorylation in the tumor and can be used for cancer research <sup>[1]</sup> .		
In Vivo	<ul> <li>Wortmannin-Rapamycin Conjugate 1 (3,5 mg/kg, i.v., weekly for 13 d) exerts significant antitumor activity on U87MG mouse xenogrgaft model<sup>[1]</sup>.</li> <li>Wortmannin-Rapamycin Conjugate 1 (15 mg/kg, i.v., 2 h) significantly inhibits the AKT phosphorylation in the tumor of U87MG mouse xenogrgaft model<sup>[1]</sup>.</li> <li>Wortmannin-Rapamycin Conjugate 1 (15 mg/kg, i.v., weekly for 20 d) completely inhibits the growth of HT29 colon tumor, a non-sensitive colon tumor model to rapamycin or wortmannin analogues in tumor-bearing mice<sup>[1]</sup>.</li> <li>Wortmannin-Rapamycin Conjugate 1 (30 mg/kg, i.v., weekly for 38 d) exerts a substantial regression of larger A498 tumors with 200 µg Bevacizumab (HY-P9906) in A498 tumor-bearing mice<sup>[1]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> </ul>		
	Animal Model:	HT29 bearing nude mice <sup>[1]</sup>	
	Dosage:	15 mg/kg, weekly for 20 d	
	Administration:	Intravenous injection (i.v.)	
	Result:	Showed no significant growth in tumor volume while an equivalent physical mixture of the Rapamycin and Wortmannin derivative was poorly tolerated.	

#### REFERENCES

[1]. Ayral-Kaloustian S, et al. Hybrid inhibitors of phosphatidylinositol 3-kinase (PI3K) and the mammalian target of rapamycin (mTOR): design, synthesis, and superior antitumor activity of novel wortmannin-rapamycin conjugates. J Med Chem. 2010 Jan 14;53(1):452-9.

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

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