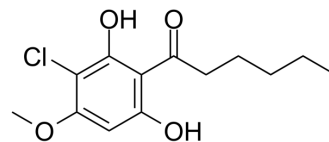


DIF-3

Cat. No.:	HY-145669
CAS No.:	113411-17-9
Molecular Formula:	C ₁₃ H ₁₇ ClO ₄
Molecular Weight:	272.72
Target:	CDK; GSK-3
Pathway:	Cell Cycle/DNA Damage; PI3K/Akt/mTOR; Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (366.68 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.6668 mL	18.3338 mL	36.6676 mL
				5 mM	0.7334 mL	3.6668 mL	7.3335 mL
				10 mM	0.3667 mL	1.8334 mL	3.6668 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.17 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	DIF-3 reduces the expression levels of cyclin D1 and c-Myc by facilitating their degradation via activation of GSK-3β. DIF-3 inhibits Wnt/β-catenin signaling pathway-related proteins in DLD-1 cells. DIF-3 exerts a strong antiproliferative effect on the human cervical cancer cell line HeLa by inducing cyclin D1 degradation and inhibiting cyclin D1 mRNA expression ^[1] .
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REFERENCES

[1]. Naoya Kubokura, et al. Differentiation-inducing factor-3 inhibits intestinal tumor growth in vitro and in vivo. J Pharmacol Sci. 2015 Apr;127(4):446-55.

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

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