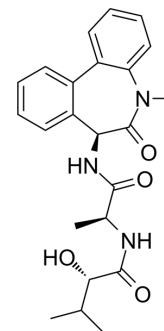


## LY900009

<b>Cat. No.:</b>	HY-18614		
<b>CAS No.:</b>	209984-68-9		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>27</sub> N <sub>3</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	409.48		
<b>Target:</b>	Notch; γ-secretase		
<b>Pathway:</b>	Neuronal Signaling; Stem Cell/Wnt		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (244.21 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.4421 mL	12.2106 mL	24.4212 mL
		5 mM	0.4884 mL	2.4421 mL	4.8842 mL
10 mM		0.2442 mL	1.2211 mL	2.4421 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.11 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.11 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	LY900009 is a potent and orally active, First-in-class inhibitor of Notch signaling via selective inhibition of the γ-secretase protein (GSI). LY900009 inhibited Notch signalling in tumor cell lines and endothelial cells (IC <sub>50</sub> range: 0.005-20 nM). LY900009 can be used for advanced cancer research <sup>[1]</sup> .
<b>In Vivo</b>	LY900009 (oral gavage; 3 mg/kg; single dosage) revealed inhibition of angiogenesis through formation of leaky vasculature and produced tumour regression in Notch-dependent tumour models in a rat model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Shubham Pant, et al. A first-in-human phase I study of the oral Notch inhibitor, LY900009, in patients with advanced cancer. Eur J Cancer. 2016 Mar;56:1-9.

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

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