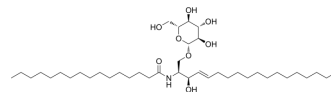


## D-Glucosyl- $\beta$ -1,1'-N-palmitoylsphingosine

<b>Cat. No.:</b>	HY-N10634
<b>CAS No.:</b>	74365-77-8
<b>Molecular Formula:</b>	C <sub>40</sub> H <sub>77</sub> NO <sub>8</sub>
<b>Molecular Weight:</b>	700.04
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 6.25 mg/mL (8.93 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	1.4285 mL	7.1424 mL	14.2849 mL
		5 mM	0.2857 mL	1.4285 mL	2.8570 mL
		10 mM	---	---	---
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: $\geq$ 0.63 mg/mL (0.90 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% saline Solubility: $\geq$ 0.63 mg/mL (0.90 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	D-Glucosyl- $\beta$ -1,1'-N-palmitoylsphingosine (C16 Glucosyl( $\beta$ ) Ceramide (d18:1/16:0)) is an endogenous Mincle ligand possessing immunostimulatory activity <sup>[1]</sup> .
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### REFERENCES

[1]. Nagata M, et, al. Intracellular metabolite  $\beta$ -glucosylceramide is an endogenous Mincle ligand possessing immunostimulatory activity. Proc Natl Acad Sci U S A. 2017 Apr 18;114(16):E3285-E3294.

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

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