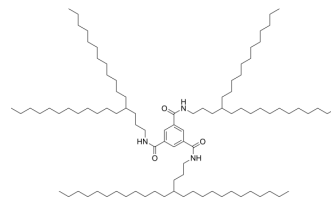


N1,N3,N5-Tris(4-dodecylhexadecyl)benzene-1,3,5-tricarboxamide

Cat. No.:	HY-145798		
CAS No.:	2922283-38-1		
Molecular Formula:	C ₉₃ H ₁₇₇ N ₃ O ₃		
Molecular Weight:	1385.42		
Target:	Liposome		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (72.18 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.7218 mL	3.6090 mL	7.2180 mL
5 mM			0.1444 mL	0.7218 mL	1.4436 mL	
	10 mM		0.0722 mL	0.3609 mL	0.7218 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (1.80 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (1.80 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.80 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	N1,N3,N5-Tris(4-dodecylhexadecyl)benzene-1,3,5-tricarboxamide is an analogue of TT3 (HY-148049). TT3 is an ionizable lipid-like materials for mRNA and CRISPR/Cas9 delivery ^{[1][2]} .
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REFERENCES

[1]. Li B, Luo X, Deng B, et al. An Orthogonal Array Optimization of Lipid-like Nanoparticles for mRNA Delivery in Vivo. Nano Lett. 2015;15(12):8099-8107.

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

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