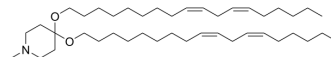


YSK 05

Cat. No.:	HY-147087		
CAS No.:	1318793-78-0		
Molecular Formula:	C ₄₂ H ₇₇ NO ₂		
Molecular Weight:	628.07		
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 (159.22 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.5922 mL	7.9609 mL	15.9218 mL
	5 mM	0.3184 mL	1.5922 mL	3.1844 mL
	10 mM	0.1592 mL	0.7961 mL	1.5922 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

YSK 05 is a pH-sensitive cationic lipid. YSK 05 improves the intracellular trafficking of non-viral vectors. YSK 05-MEND shows significantly good gene silencing activity and hemolytic activity. YSK 05 overcomes the suppression of endosomal escape by PEGylation. YSK 05 effectively enhances siRNA delivery both in vitro and in vivo^[1].

In Vitro

YSK 05 facilitates the endosomal escape of the MEND and thereby enhances the efficacy of siRNA delivery into cytosol and gene silencing^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sato Y, et al. A pH-sensitive cationic lipid facilitates the delivery of liposomal siRNA and gene silencing activity in vitro and in vivo. J Control Release. 2012 Nov 10;163(3):267-76.

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

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