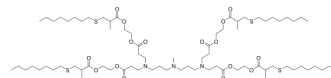


## 4A3-SC8

Cat. No.:	HY-148559
CAS No.:	1857340-78-3
Molecular Formula:	C <sub>75</sub> H <sub>139</sub> N <sub>3</sub> O <sub>16</sub> S <sub>4</sub>
Molecular Weight:	1467.18
Target:	Others
Pathway:	Others
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 (68.16 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.6816 mL	3.4079 mL	6.8158 mL
	5 mM	0.1363 mL	0.6816 mL	1.3632 mL
	10 mM	0.0682 mL	0.3408 mL	0.6816 mL

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

### BIOLOGICAL ACTIVITY

#### Description

4A3-SC8 is a modular degradable dendrimer that enables small RNAs to extend survival in an aggressive liver cancer model [1].

#### In Vivo

4A3-SC8 mediates siRNA accumulation mainly in liver and slightly in the spleen and kidneys 24 hours after intravenous injection at dosage of 1 mg siRNA/kg and enables >95% FVII knockdown in mice<sup>[1]</sup>.  
After injection with 4A3-SC8 (100 mg/kg with 4 mg/kg control siRNA siCTR; i.v.; once), mice became sick and lost nearly 20% of their weight on the first day postinjection<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Zhou K, et al. Modular degradable dendrimers enable small RNAs to extend survival in an aggressive liver cancer model. Proc Natl Acad Sci U S A. 2016 Jan 19;113(3):520-5.

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

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