

Supplementary Information

**Tryptophan Intercalation in siRNA Drives the Formation of Polymeric Micelles
with Enhanced Delivery Efficiency**

Yuki Nakashima^{a+}, Wenqian Yang^{a+}, Pengwen Chen^a, Keita Masuda^a, Teahun Hong^b,
Horacio Cabral^{a*}

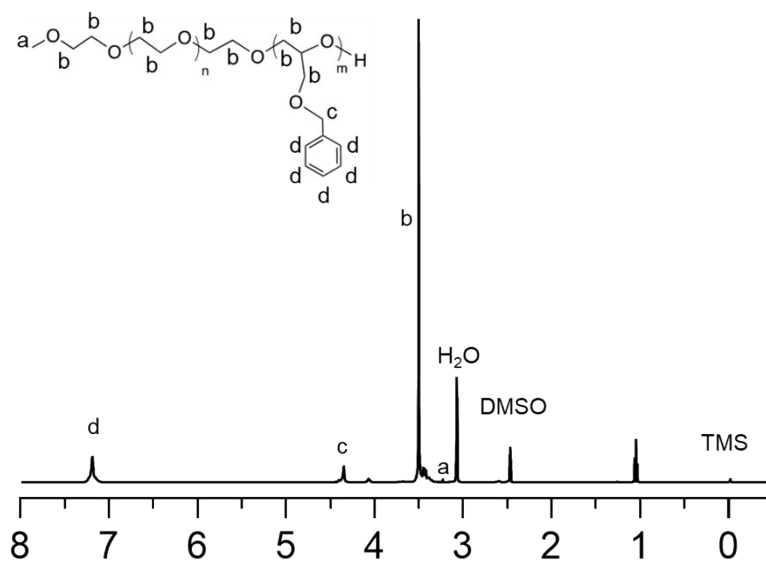
a, Department of Bioengineering, Graduate School of Engineering, The University of
Tokyo, Tokyo, Japan

b, Department of Molecular Pathology, Tokyo Medical University, Tokyo, Japan

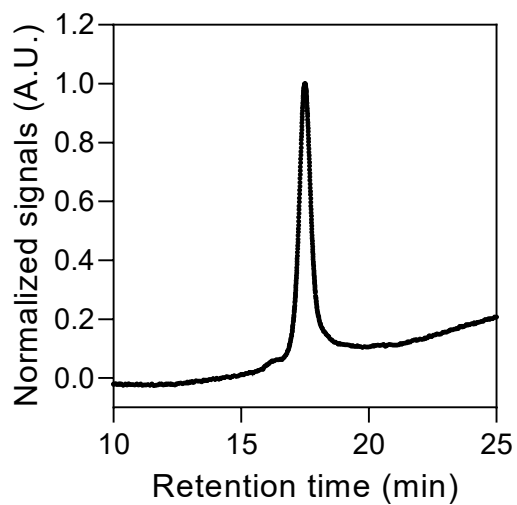
+There authors contributed equally.

*Corresponding author

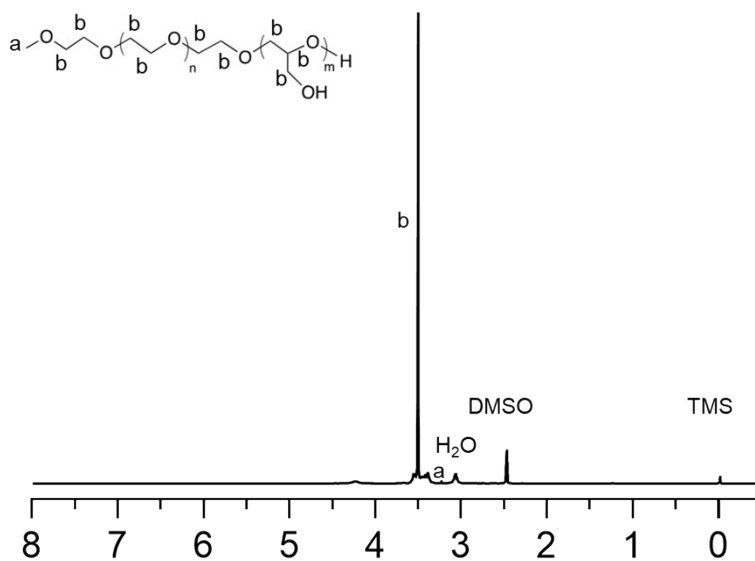
horacio@bmw.t.u-tokyo.ac.jp



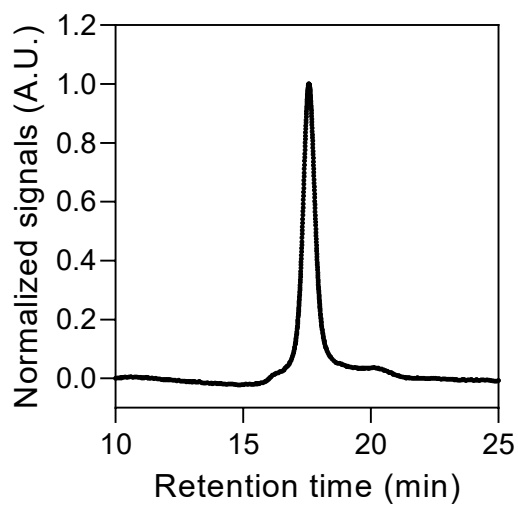
Supplementary Fig. S1 ¹H-NMR of PEG-P(benzyl glycidyl ether) (polymer concentration: 10 mg/mL, solvent: DMSO, and temperature: 80°C)



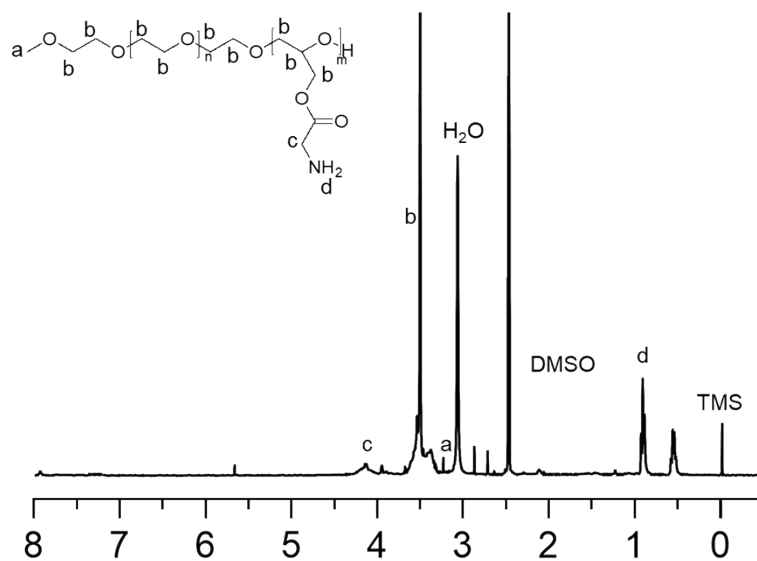
Supplementary Fig. S2 GPC of PEG-P(benzyl glycidyl ether) (polymer concentration: 1 mg/mL, solvent: DMF)



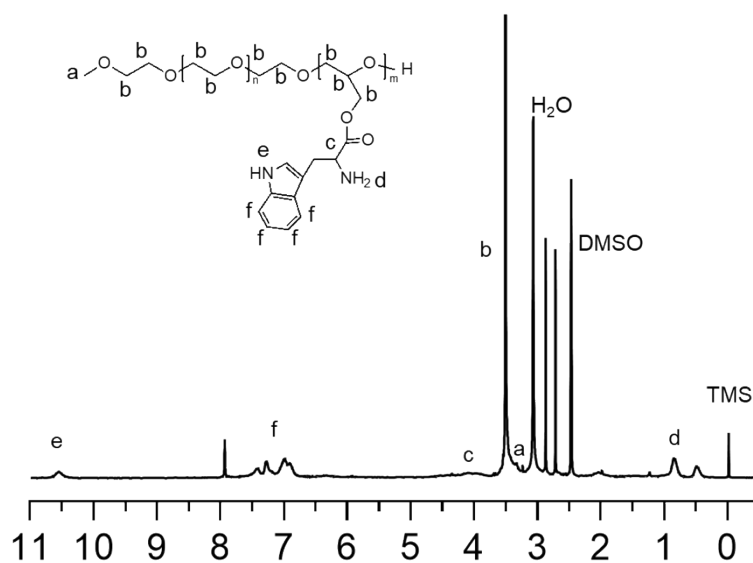
Supplementary Fig. S3 ¹H-NMR of PEG-P(glycidol) (polymer concentration: 10 mg/mL, solvent: DMSO, and temperature: 80°C)



Supplementary Fig. S4 GPC of PEG-P(glycidol) (polymer concentration: 1 mg/mL, solvent: DMF)



Supplementary Fig. S5 $^1\text{H-NMR}$ of PEG-PGGly (polymer concentration: 10 mg/mL, solvent: DMSO, and temperature: 80°C)



Supplementary Fig. S6 $^1\text{H-NMR}$ of PEG-PGTrp (polymer concentration: 10 mg/mL, solvent: DMSO, and temperature: 80°C)