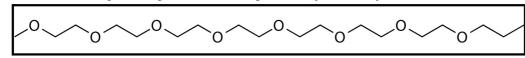
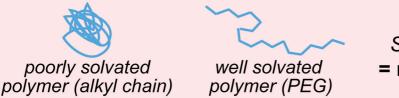
Polyethylene Glycol (PEG) Linkers



maximum length (all-trans) = n × 0.35 nm

1. PEG is longer than most other polymers due to solvation



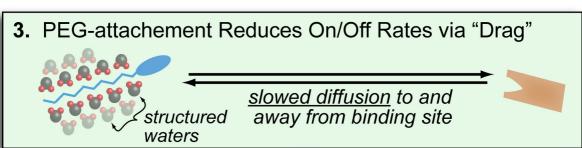
Solution Length = $n \times (0.35)^{0.64}$ nm

PEG

2. PEG-attachement Increases Serum Half-life of Drugs

(1)
block
metabolic
enzymes

(2)
reduce
filtration



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4. PEG-attachement Reduces K_d/k_{OR} by Steric Blocking

