



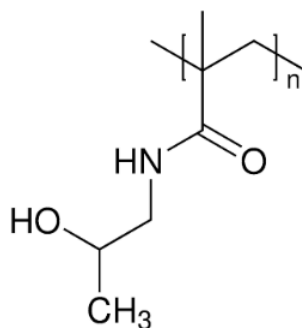
Product Profile

Identification

Product Name: Poly(N-(2-hydroxypropyl)methacrylamide), ω -RAFT-terminated

Product Lot Number: P45713A-HPMAMD-RAFT

Chemical Architecture:



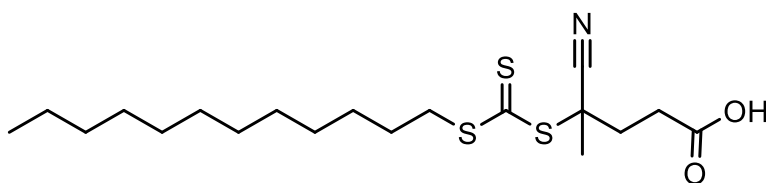
Composition:

Mn (g/mole)	31,000
Mw (g/mole)	35,000
Mw/Mn	1.14
dn/dc (mL/g) in water ph7	0.170

Method of Synthesis

Polymer synthesized by RAFT polymerization of using 4,4'-azo(4-cyanopentanoic acid) as initiator and trithiocarbonate as chain transfer agent in water.

RAFT-TSC-14



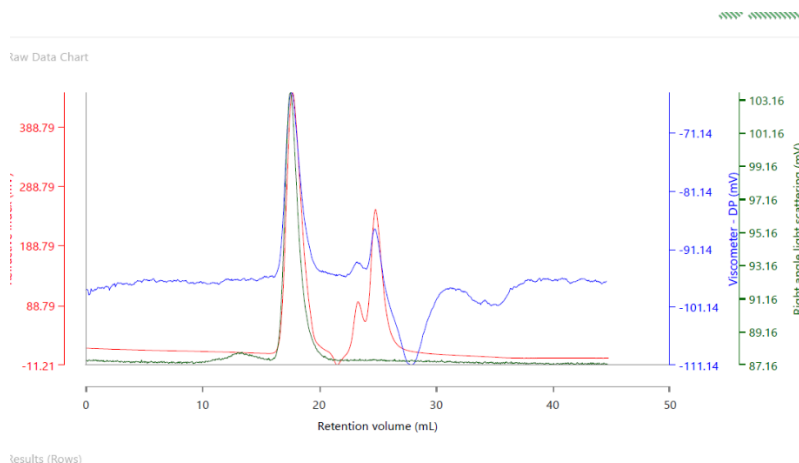
Solubility in different solvents:

Water	√
THF	
Alcohol	

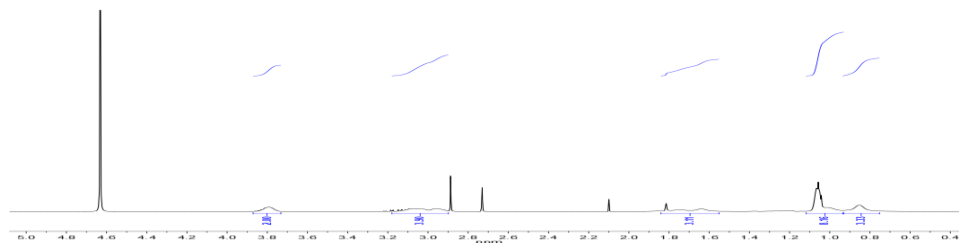
Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC Profile:

Polyacrylamide and analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI) using water containing 0.1M NaNO₃ and 0.01M NaH₂PO₄ and 4 vol% acetonitrile as eluent.



B. HNMR of the polymer run in D₂O



C. HNMR run in DMSO

