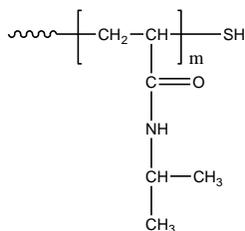


Sample Name: Thiol terminated Poly(N-isopropyl acrylamide)

Sample #: P11451B-NIPAMSH

Structure:

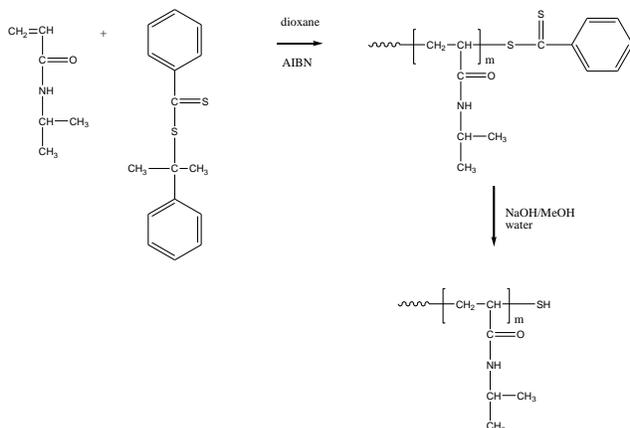


Composition:

Mn x 10 ³	PDI
3.6	1.10

Synthesis Procedure:

The polymer was prepared by reversible addition-fragmentation chain transfer polymerization (RAFT) of N-isopropyl acrylamide with a AIBN as initiator and cumyl dithiobenzoate as chain-transfer agent, followed by hydrolysis. The scheme of the reaction is illustrated below:



Characterization:

The molecular weight and polydispersity was determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector and DMF containing 0.05M LiBr salt as eluent. PEO reference materials was used to calculate molecular weights and its distribution.

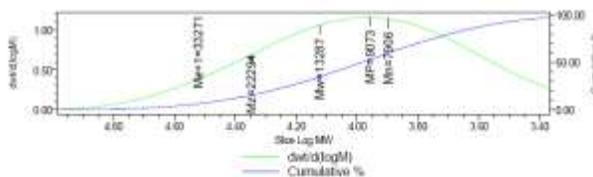
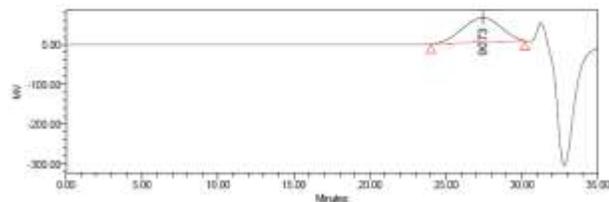
Solubility:

The polymer is soluble in water methanol, ethanol, DMF, and dioxane, not soluble in hexane.

SEC of Sample:

Reported by User: System Project Name: GPC_Default

SAMPLE INFORMATION			
Sample Name:	P11451C	Acquired By:	System
Sample Type:	Broad Unknown	Date Acquired:	4/24/2013 3:38:05 PM
Vol:	1	Acq. Method Set:	method 1
Injection #:	7	Date Processed:	4/29/2013 1:48:02 PM
Injection Volume:	100.00 ul	Processing Method:	PECalibration
Run Time:	35.0 Minutes	Channel Name:	410
Sample Set Name:		Proc. Chnl. Descr.:	



GPC results of the Product:

	Retention time	Mn	Mw	Mp	Mw/Mn
1	27.426	7906	11008	90.73	1.39