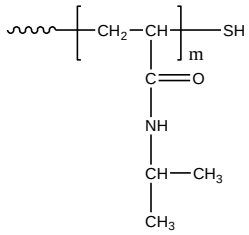
Sample Name: **Thiol terminated Poly(N-isopropyl acrylamide)**

Sample #: **P11451B-NIPAMSH**

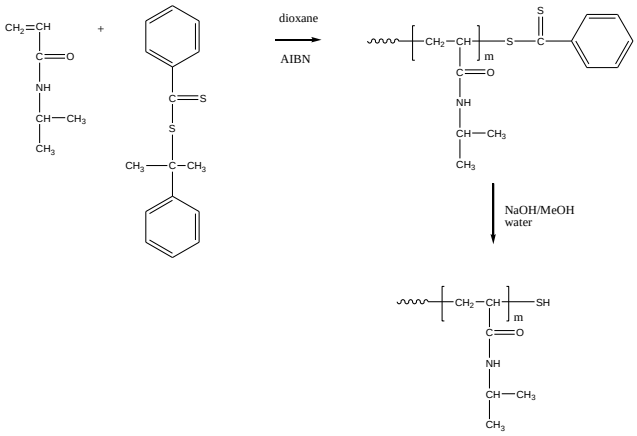
Structure:



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: