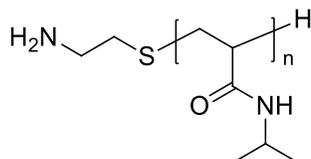


**Sample Name:** Poly(N-isopropyl acrylamide),  
 **$\alpha$ -Amino Terminated**

**SEC profile of the Sample:**  
 Dn/dc value used: 0.077 mL/g

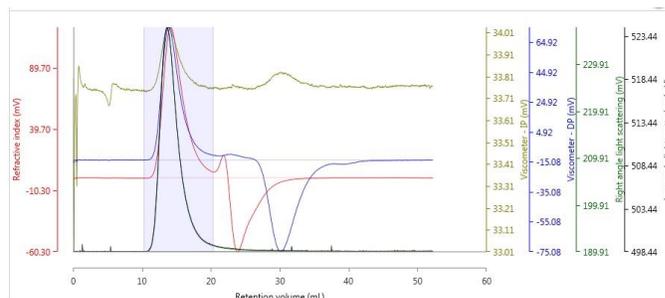
**Sample #:** P60691-20-NIPAMNH2

**Structure:**



**Composition:**

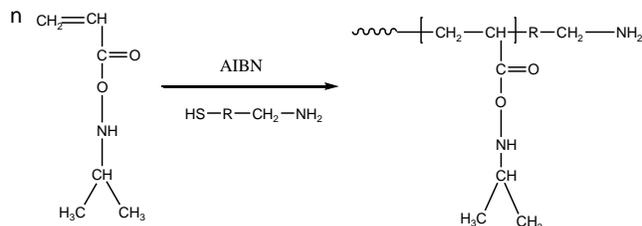
$M_n \times 10^3$	PDI
195.3	1.38



Results (Columns)	
P60691-20	
Injection 1	
Peak 1	
Mn (g/mol)	195,276
Mw (g/mol)	269,049
Mw/Mn	1.378
Mp (g/mol)	220,219
Recovery (%)	73.93

**Synthesis Procedure:**

Amino Terminated Poly(N-isopropyl acrylamide) was prepared by free-radical polymerization of N-isopropyl acrylamide in the presence of an amino group containing chain-transfer agent. The final polymer was purified by fractionation. The scheme of the reaction is illustrated below:



**Characterization:**

GPC-SEC experiments for MW and polydispersity determination, were performed on Agilent or Malvern tri-detector systems, equipped with a refractive index, viscometer and light-scattering detectors and a set of two or three Supelco columns. DMF, with up to 0.02M of LiBr, was used as a mobile phase.

**Solubility:**

The polymer is soluble in water, THF,  $\text{CHCl}_3$  and  $\text{CH}_2\text{Cl}_2$ , insoluble in hexane and ether