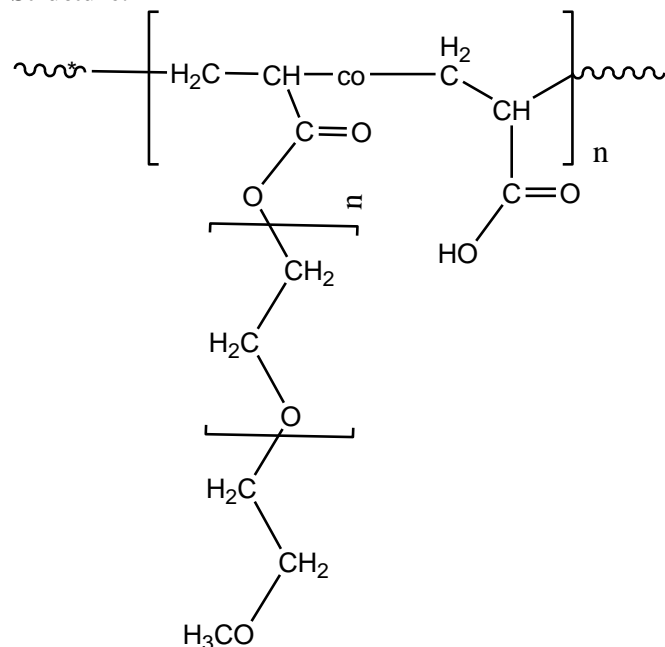


Random Graft Copolymer Poly(ethylene glycol and acrylic acid)

Sample #: P18822-EGAAran

Structure:



Composition:

$M_n \times 10^3$	PDI
26.0 (Acrylic acid mol%: 12)	1.8
# of PEG Branches	10
M_n of PEG 1.8	

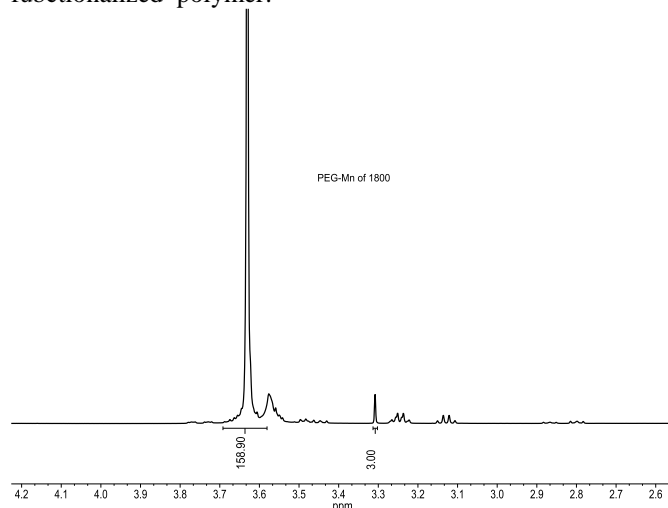
Synthesis Procedure:

Random Copolymer poly(ethylene glycol-co-acrylic acid) is prepared by RAFT process using acrylate end functionalized poly ethylene glycol methyl ether and acrylic acid monomer.

Characterization:

The polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The copolymer composition was calculated from ^1H -NMR spectroscopy.

¹H NMR of mPEG used in the synthesis of acrylate end functionalized polymer:



¹H NMR of Acrylate end-functional polymer:

