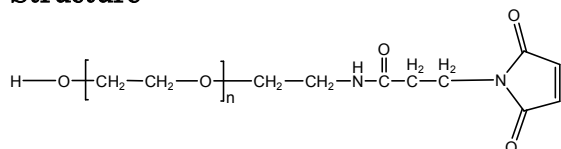


Sample Name:
 α -hydroxy ω - Maleimido end functionalized
 Poly(ethylene glycol)

Sample #: P10141D-EGOHMaleimido

Structure:



Composition:

Mn x 10 ³	PDI
3.7	1.09
Maleimido functionality by HNMR	~99 %

Synthesis Procedure:

α -OH- ω - Maleimido end functionalized Poly(ethylene glycol) was synthesized by anionic living polymerization of ethylene oxide using ethylene glycol/ THP-potassium salt as an initiator, followed by the conversion of hydroxyl end group into 3-maleimidopropionate group.

Solubility:

Functionalized poly(ethylene oxide) is soluble in CHCl₃, THF, and precipitated out from cold diethyl ether.

Characterization:

Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The polymer obtained at each step and the final block copolymer composition was calculated from ¹H-NMR spectroscopy.

NMR of α -hydroxy ω - Maleimido end functionalized PEG:

