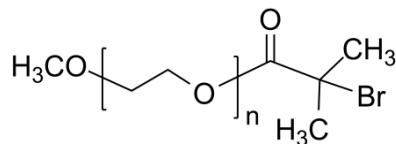


**Sample Name:** Bromo end functionalized Poly (ethylene glycol) methyl ether

**Sample #:** P41476-EGOCH3Br

**Structure:**

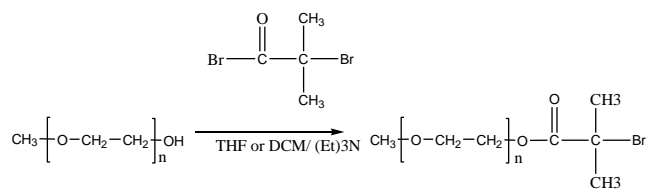


**Composition:**

Mn x 10 <sup>3</sup>	PDI
13.5	1.06
Functionality Br	>99%

**Synthesis Procedure:**

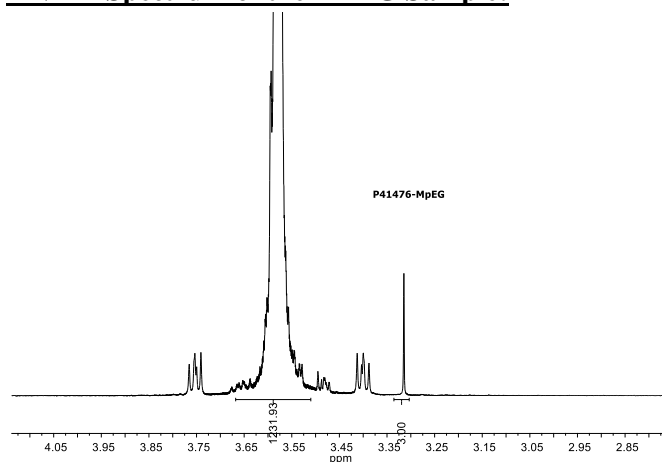
Bromo terminated Poly(ethylene glycol methyl ether) was prepared by reaction of OH terminated PEG with  $\alpha$ -Bromoisobutyryl bromide in DCM or in THF in the presence of triethyl amine. The scheme of the reaction is illustrated below.



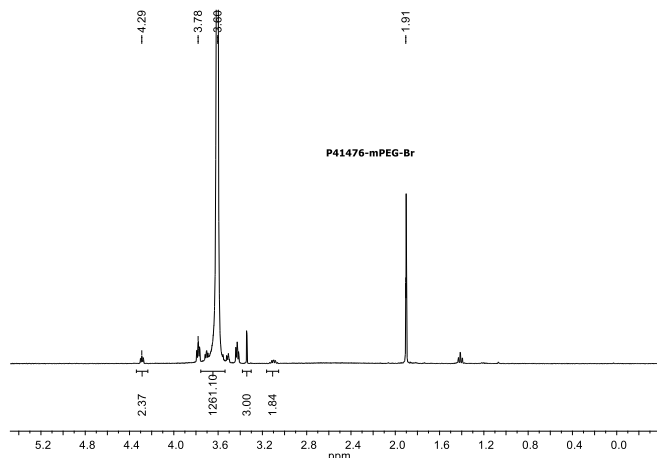
**Characterization:**

The product was characterized by size exclusion chromatography (SEC), <sup>1</sup>HNMR and FTIR.

**HNMR Spectrum of the mPEG Sample:**



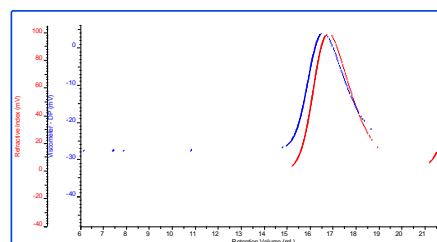
**HNMR Spectrum of the mPEG-Br Sample:**



**SEC profile of the Sample:**

P41476-mPEG-Br

dn/dc	0.0350
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS



Sample	Mn	Mw	Mz	IV	Mw/Mn
P41476-EO_1_2018-1	13,302	14,051	14,851	0.2092	1.056

**FTIR Spectrum of the Product:**

