

Supporting Information

Frank Seela: Laboratorium für Organische und Bioorganische Chemie, Institut für Chemie, Universität Osnabrück, Barbarastr. 7, 49069 Osnabrück, Germany

Oligonucleotides Forming an i-Motif: The pH-Dependent Assembly of Individual Strands and Branched Structures Containing 2'-Deoxy-5-propynylcytidine

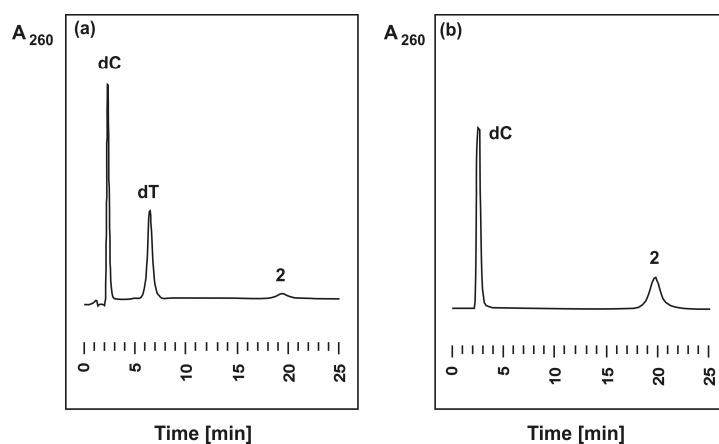
Frank Seela^{*}, Simone Budow and Peter Leonard

Laboratory of Bioorganic Chemistry and Chemical Biology, Center for Nanotechnology, Heisenbergstraße 11, 48149 Münster, Germany and Laboratorium für Organische und Bioorganische Chemie, Institut für Chemie, Universität Osnabrück, Barbarastraße 7, 49069 Osnabrück, Germany

Phone: +49(0)541 969 2791; Mobil Phone: +49-1737250297; Fax: +49(0)251 53406 501

E-mail: Frank.Seela@uni-osnabrueck.de; Seela@uni-muenster.de

Homepage: www.seela.net



(a) Reverse-phase HPLC profile of the enzymatic analysis of oligonucleotide **10** incorporating **2** by phosphodiesterase (EC 3.1.15.1, *Crotallus adamanteus*) followed by alkaline phosphatase (EC 3.1.3.1, *Escherichia coli*) in 0.1 M Tris-HCl buffer (pH 8.9) at 37°C. (b) 1 : 1 mixture of the nucleosides dC and **2** in water, $c = 10^{-3}$ M/l. Gradient [A: 0.1 M (Et₃NH)OAc (pH 7.0)/MeCN 95:5; B: MeCN]: 20 min. A, 40 min. 0-65% B in A; flow rate: 0.7 ml/min. The hydrolysis was monitored at 260 nm. For more details see the experimental part.