Non-Traditional Intrinsic Luminescence (NTIL): Dynamic Quenching Demonstrates the Presence of Two Distinct Fluorophore Types Associated with NTIL Behavior in Pyrrolidone-Terminated PAMAM Dendrimers

Maciej Studzian^{1, 2}, Łukasz Pułaski^{2, 3}, Donald A. Tomalia^{4, 5, 6}, Barbara Klajnert-Maculewicz¹

⁶Department of Physics, Virginia Commonwealth University, Richmond, VA, USA

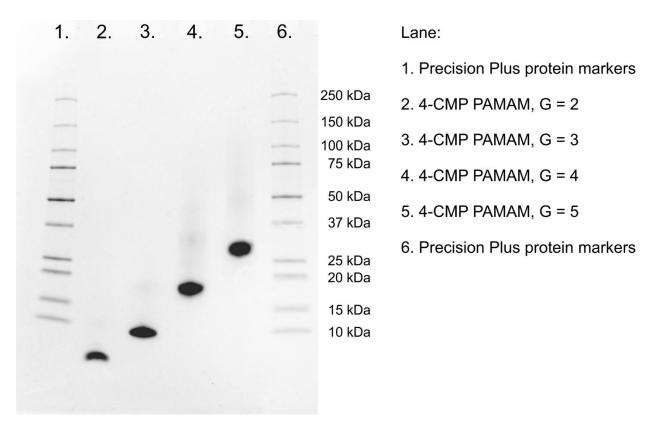


Fig S1. SDS-PAGE analysis of 4-CMP PAMAM preparations used in this study. Mini-PROTEAN TGX precast 4%-20% gradient gel was run in standard Tris-glycine buffer with 0.1% SDS.

¹Department of General Biophysics, Faculty of Biology and Environmental Protection, University of Lodz, 141/143 Pomorska St., 90-236 Lodz, Poland

²Department of Molecular Biophysics, Faculty of Biology and Environmental Protection, University of Lodz, Banacha 12/16, 90-237 Lodz, Poland

³Laboratory of Transcriptional Regulation, Institute of Medical Biology PAS, Lodowa 106, 93-232 Lodz, Poland

⁴NanoSynthons LCC, 1200 N. Fancher Avenue, Mt. Pleasant, MI 48858, USA

⁵Department of Chemistry, University of Pennsylvania, Philadelphia, PA, USA

¹*H-NMR* (600 MHz, Bruker Avance III, D₂O with water suppresion)

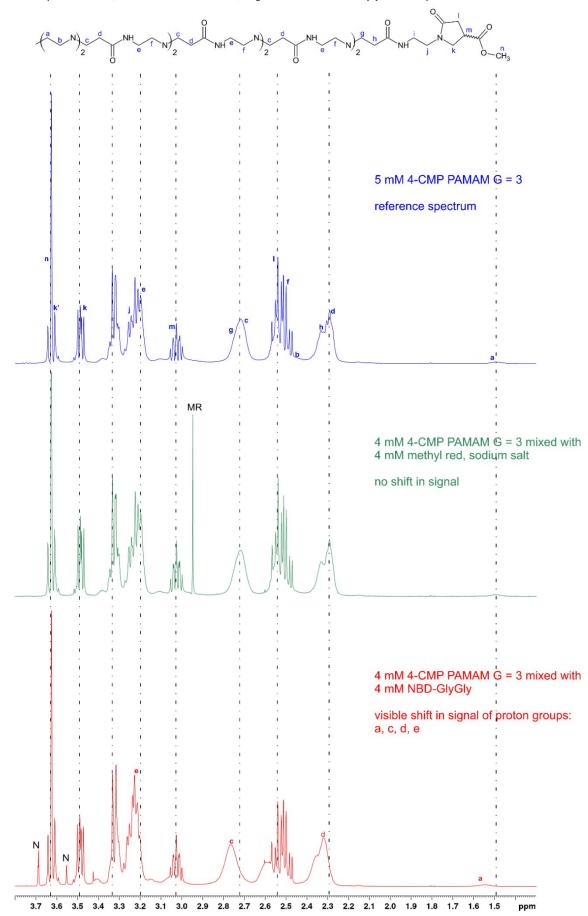


Fig S2. 1 H-NMR study of 4-CMP PAMAM dendrimer interaction with quenchers used in this study: methyl red and NBD-GlyGly. MR – protons from methyl red; N – protons from NBD-GlyGly.