

Accepted Manuscript

Title: Examination of dual-pendant sulfonate bis(indolenine)squaraine with 1,8-diazabicyclo[5.4.0]undec-7-enium cations

Authors: Daniel E. Lynch, Martin Cox, Patrick M. King



PII: S1010-6030(17)30391-X
DOI: <https://doi.org/10.1016/j.jphotochem.2017.06.032>
Reference: JPC 10711

To appear in: *Journal of Photochemistry and Photobiology A: Chemistry*

Received date: 22-3-2017
Revised date: 12-6-2017
Accepted date: 22-6-2017

Please cite this article as: Daniel E.Lynch, Martin Cox, Patrick M.King, Examination of dual-pendant sulfonate bis(indolenine)squaraine with 1,8-diazabicyclo[5.4.0]undec-7-enium cations, *Journal of Photochemistry and Photobiology A: Chemistry* <https://doi.org/10.1016/j.jphotochem.2017.06.032>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Examination of dual-pendant sulfonate bis(indolenine)squaraine with 1,8-diazabicyclo[5.4.0]undec-7-enium cations

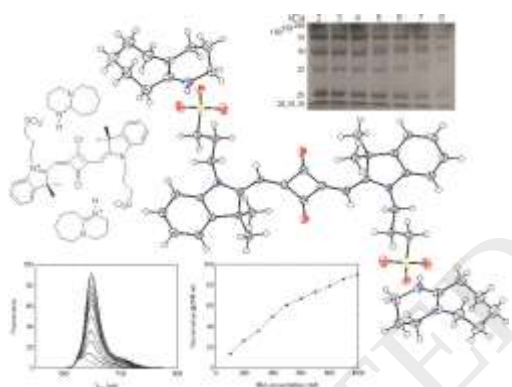
Daniel E. Lynch ^{a,*}, Martin Cox ^b and Patrick M. King ^b

^a Exilica Limited, The Technocentre, Puma Way, Coventry CV1 2TT, UK

^b Faculty of Health and Life Sciences, Coventry University, Coventry CV1 5FB, UK

* Corresponding author. Tel.: +44(0)24 7765 8505. Email address: d.lynch@exilica.co.uk (D.E. Lynch).

GRAPHICAL ABSTRACT



HIGHLIGHTS

- 1,8-diazabicyclo[5.4.0]undec-7-ene used to make bis(indolenine)squaraine dyes
- Solution protein fluorescence responses comparable to bis-piperdinium analogue
- X-ray crystal structure of bis-(1,8-diazabicyclo[5.4.0]undec-7-enium) dye reported
- Dye-stained electrophoresis gels do not fluoresce
- Bacterial cells stained with bis-piperidinium compound fluoresce.

ABSTRACT

The dual-pendant sulfonate bis(indolenine)squaraines with 1,8-diazabicyclo[5.4.0]undec-7-enium cations has been prepared and examined with reference to the previously studied bis-piperidinium analogue. The X-ray crystal structure of the bis-(1,8-

Download English Version:

<https://daneshyari.com/en/article/6492511>

Download Persian Version:

<https://daneshyari.com/article/6492511>

[Daneshyari.com](https://daneshyari.com)