

Accepted Manuscript

Title: A Ratiometric Fluorescence Chemosensor for Mg²⁺ Ion and Its Live Cell Imaging

Authors: Pitchai Marimuthu, Andy Ramu

PII: S0925-4005(18)30656-7
DOI: <https://doi.org/10.1016/j.snb.2018.03.158>
Reference: SNB 24443

To appear in: *Sensors and Actuators B*

Received date: 28-8-2017
Revised date: 22-3-2018
Accepted date: 26-3-2018



Please cite this article as: Pitchai Marimuthu, Andy Ramu, A Ratiometric Fluorescence Chemosensor for Mg²⁺ Ion and Its Live Cell Imaging, *Sensors and Actuators B: Chemical* <https://doi.org/10.1016/j.snb.2018.03.158>

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.

A Ratiometric Fluorescence Chemosensor for Mg^{2+} Ion and Its Live Cell Imaging

Pitchai Marimuthu^a and Andy Ramu^{a*}

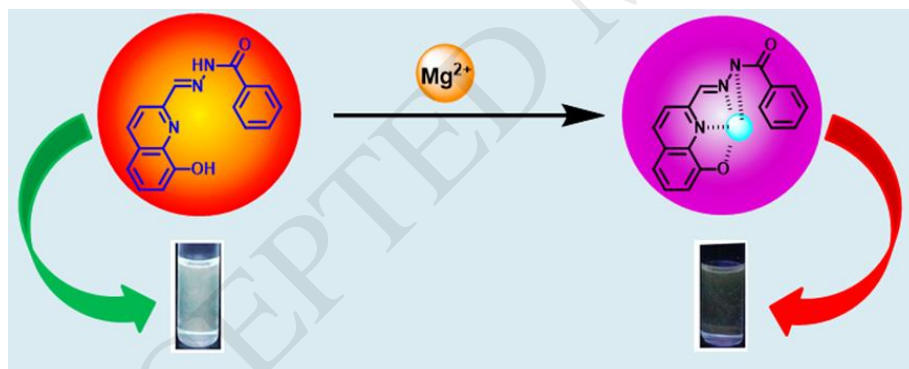
^aDepartment of Inorganic Chemistry, School of Chemistry, Madurai Kamaraj University,
Madurai-625 021, Tamil Nadu, India

^{a*}E-mail: ramumku@yahoo.co.in

*Corresponding Author: Tel: +91 0452-245 8410, 9442623835.

*E-mail address: ramumku@yahoo.co.in (Andy Ramu)

Graphical abstract



Highlights

- 8-HQC-PTH fluorescence sensor has been synthesized in simple procedure.
- 8-HQC-PTH is selectively quenched by Mg^{2+} ion in the presence of other metal ions
- The sensor has both colorimetric and ratiometric fluorescent response for Mg^{2+}

Download English Version:

<https://daneshyari.com/en/article/7139855>

Download Persian Version:

<https://daneshyari.com/article/7139855>

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