



# SZABO SCANDIC

Part of Europa Biosite

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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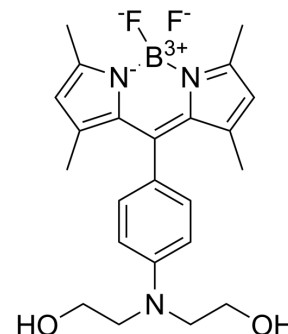
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## 10-(4-(Bis(2-hydroxyethyl)amino)phenyl)-5,5-difluoro-1,3,7,9-tetramethyl-5H-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-4-ium-5-uide

<b>Cat. No.:</b>	HY-D1551
<b>CAS No.:</b>	886212-86-8
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>28</sub> BF <sub>2</sub> N <sub>3</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	427.3
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	10-(4-(Bis(2-hydroxyethyl)amino)phenyl)-5,5-difluoro-1,3,7,9-tetramethyl-5H-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-4-ium-5-uide, a BODIPY derivative, is a fluorescent indicator for detecting Pb <sup>2+</sup> (Ex=504 nM, Em=510 nM) <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Pb <sup>2+</sup> <sup>[1]</sup>
<b>In Vitro</b>	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs)<sup>[2]</sup>.</p> <ol style="list-style-type: none"> <li>1. Prepare the stock solutions (1 mM) of the perchlorate salts of various metal ions separately.</li> <li>2. stock solution of host (0.1 mM) in acetonitrile.</li> <li>3. Prepare the test solutions by placing 4-40 μL of the probe stock solution into a test tube.</li> <li>4. Add an appropriate aliquot of each metal stock, and dilute the solution to 4 mL with acetonitrile.</li> <li>5. Excited at 504 nm.</li> </ol> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Hye Young Lee, et al. A selective fluoroionophore based on BODIPY-functionalized magnetic silica nanoparticles: removal of Pb<sup>2+</sup> from human blood. *Angew Chem Int Ed Engl.* 2009;48(7):1239-43.

[2]. Xin Qi, et al. New BODIPY Derivatives as OFF-ON Fluorescent Chemosensor and Fluorescent Chemodosimeter for Cu<sup>2+</sup>: Cooperative Selectivity Enhancement toward Cu<sup>2+</sup>. *J Org Chem.* 2006 Mar 31;71(7):2881-4.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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