Supporting Information

*A NIR fluorescent probe for the specific detection of hypochlorite and its application in vitro and vivo*

Lu Zhen,† Jinshuai Lan,† Shengan Zhang, Li Liu, Ruifeng Zeng, Yi Chen,* Yue Ding,* †

a School of Pharmacy, Shanghai University of Traditional Chinese Medicine, Shanghai, 201203, Republic of China
b Experiment Center of Teaching and Learning, Shanghai University of Traditional Chinese Medicine, Shanghai, 201203, Republic of China
c School of Basic Medicine, Shanghai University of Traditional Chinese Medicine, Shanghai, 201203, Republic of China

*Corresponding authors: chenyi@shutcm.edu.cn, Tel: 021-51322318; dingyue-2001@hotmail.com, Tel: 021-51322318.

† These authors contributed equally to this work.
Fig. S1. $^1$H NMR spectrum of probe DAB in DMSO-d$_6$.

Fig. S2. $^{13}$C NMR spectrum of probe DAB in DMSO-d$_6$. 
**Fig. S3.** Mass spectrum of probe DAB (A) and the crude product from the reaction of the probe with ClO\textsuperscript{−} (B).

**Fig. S4.** Toxicity of various concentrations of probe DAB (0, 5, 10, 20, 30 μM) to A549 cells, the cell viability was detected by CCK-8.
Table S1. Comparison of fluorescence probes for ClO⁻.

<table>
<thead>
<tr>
<th>Probe</th>
<th>λ&lt;sub&gt;em&lt;/sub&gt; (nm)</th>
<th>Reaction time</th>
<th>LOD biological system</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
</tr>
<tr>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
</tr>
<tr>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
</tr>
<tr>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
</tr>
<tr>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
<td><img src="probes_s1" alt="Image" /><a href="#">S1</a></td>
</tr>
</tbody>
</table>

References

