

**Exclusive Excited State Intramolecular Proton Transfer from a  
2-(2'-Hydroxyphenyl)benzimidazole Derivative**

Santosh Kumar Behera<sup>a</sup>, G. Sadhuragiri,<sup>b</sup> Palani Elumalai,<sup>b</sup> M. Sathiyendiran<sup>b</sup>, and G.

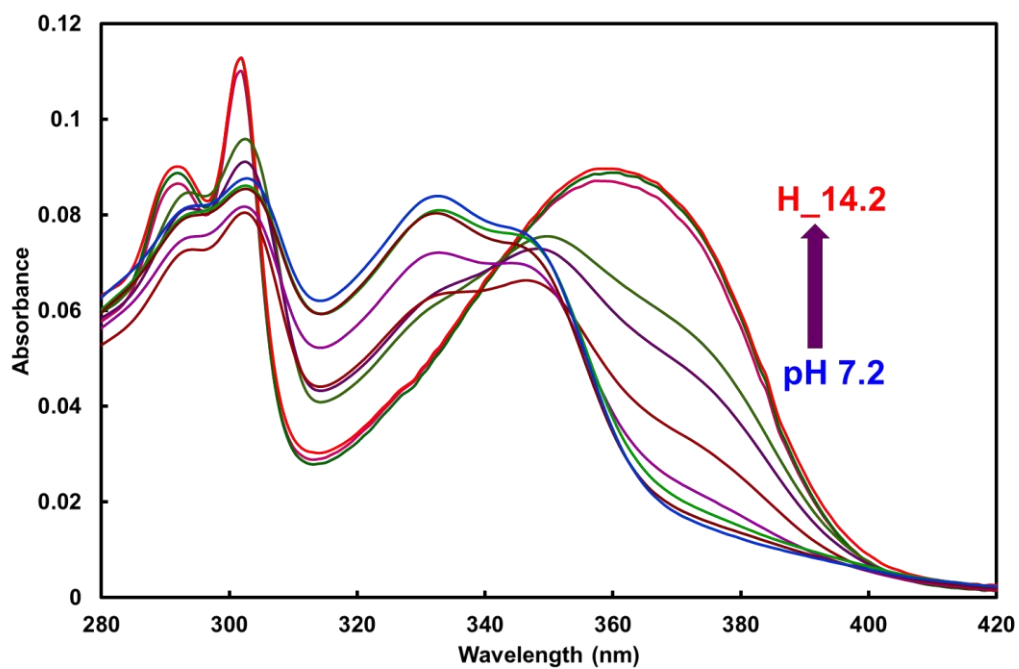
Krishnamoorthy<sup>a\*</sup>

<sup>a</sup>Department of Chemistry, Indian Institute of Technology Guwahati, Assam 781039, India

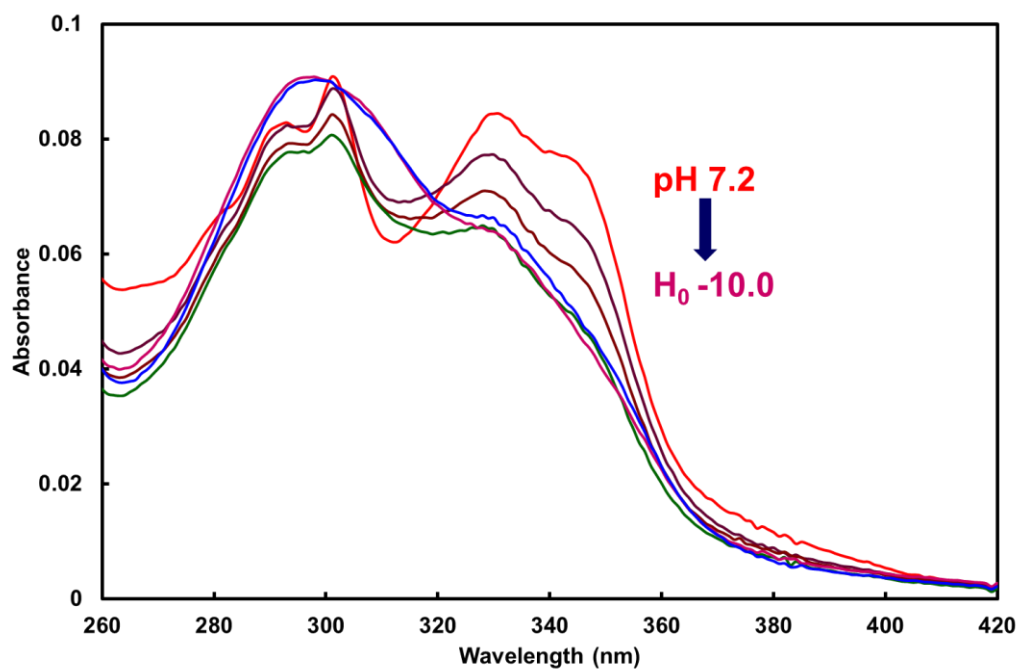
<sup>b</sup>School of Chemistry, University of Hyderabad, Hyderabad - 500 046, India

Email ID: [gkrishna@iitg.ernet.in](mailto:gkrishna@iitg.ernet.in)

**Electronic supplementary information**



**Fig. S1** Absorption spectra of bis-HPBI in aqueous medium in pH /H\_ range 7.2 to 14.2.



**Fig. S2** Absorption spectra of bis-HPBI in aqueous medium in pH /H\_0 range 7.2 to -10.

**Table S1** Fluorescence Wavelength Maximum ( $\lambda_{\text{max}}^{\text{fl}}$ , nm) and Lifetimes ( $\tau$ , ns) of bis-HPBI in Aqueous Medium at Different Conditions.

<b>H_/pH/H<sub>0</sub></b>	<b><math>\lambda_{\text{max}}^{\text{fl}}</math></b>	<b><math>\tau</math></b>
<b>H_ 14.2</b>	435	3.97
<b>pH 11.0</b>	435	0.31
	470	2.52
<b>pH 7.2</b>	475	1.64
<b>pH 1.0</b>	388	0.38
	360	1.89
<b>H<sub>0</sub> -7.3</b>	388	0.28
	455	2.88
<b>H<sub>0</sub> -10.0</b>	388	1.18