

Supplementary Information

A Novel Transparent Luminous Hydrogel with Self-healing Property

Table s1. Water content of the different quality 10Eu-PVA 2 hydrogels

Polymer		Weight (g)					Water content (%)
Eu-PVA hydrogel	W₀	0.853	0.866	0.869	0.885	0.890	83.495±0.283
	W₁	0.145	0.141	0.143	0.145	0.146	

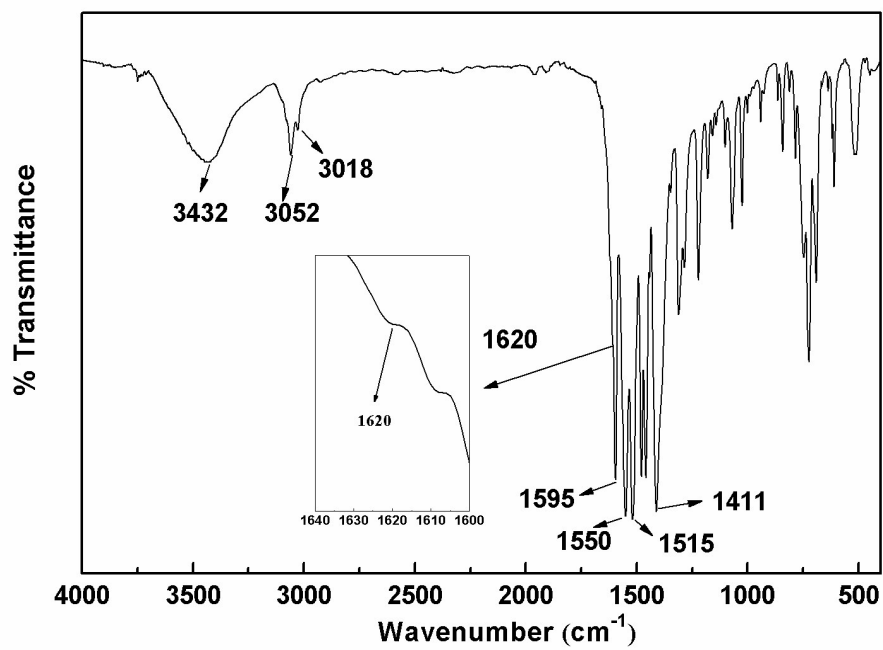


Fig. s1 FT-IR spectrum of Eu(DBM)₂(Phen)(MA) (EDPM)

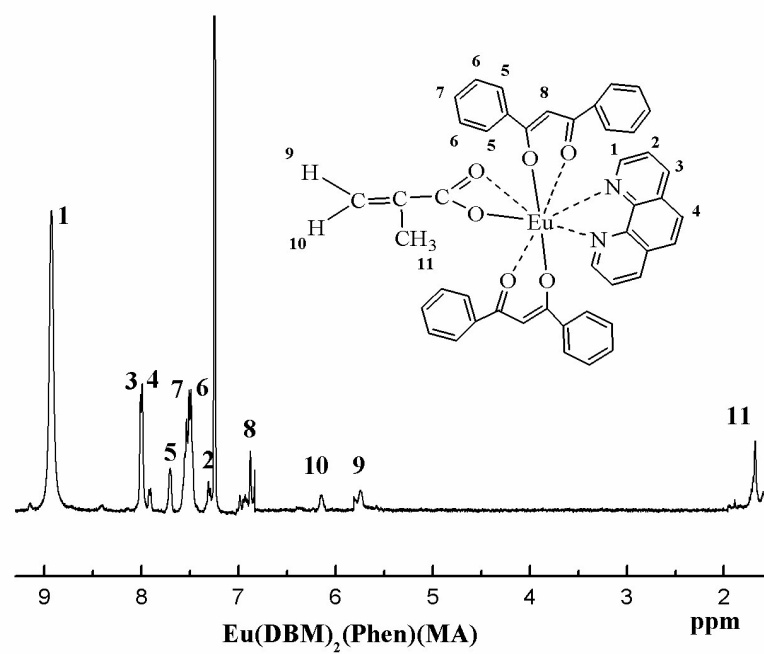


Fig. s2 ^1H NMR spectrum of $\text{Eu}(\text{DBM})_2(\text{Phen})(\text{MA})$

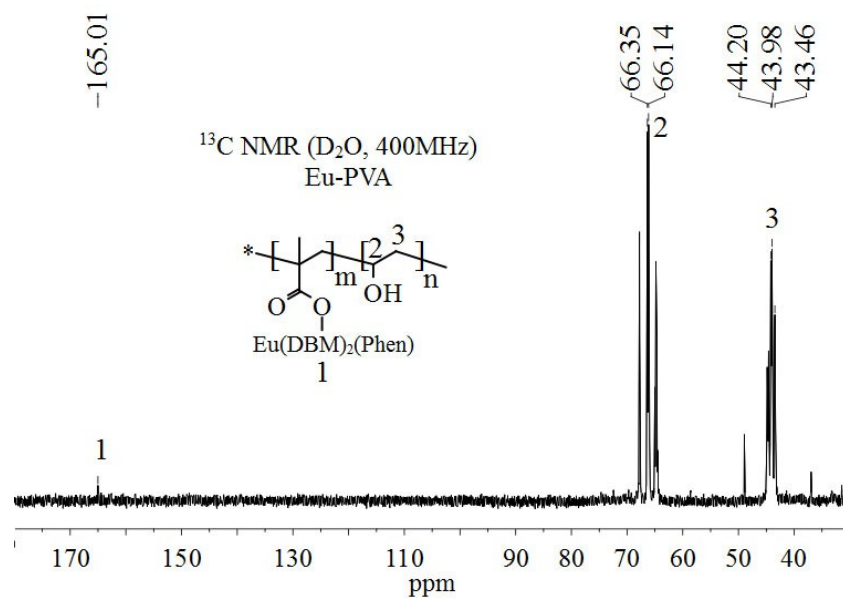


Fig. s3 ^{13}C NMR spectrum of Eu-PVA.

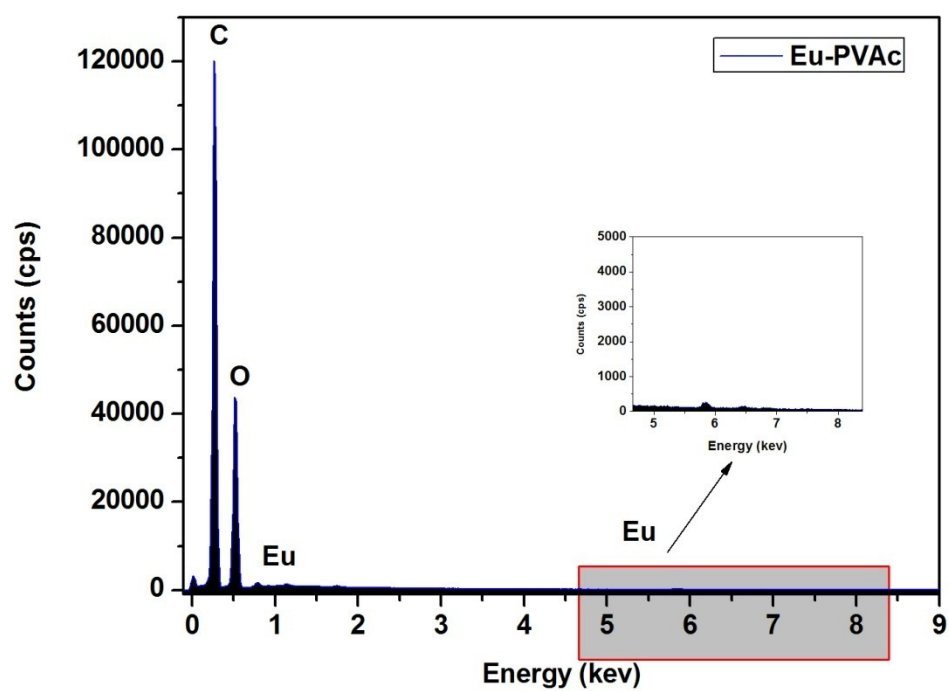


Fig. s4. EDS spectrum of Eu-PVAc

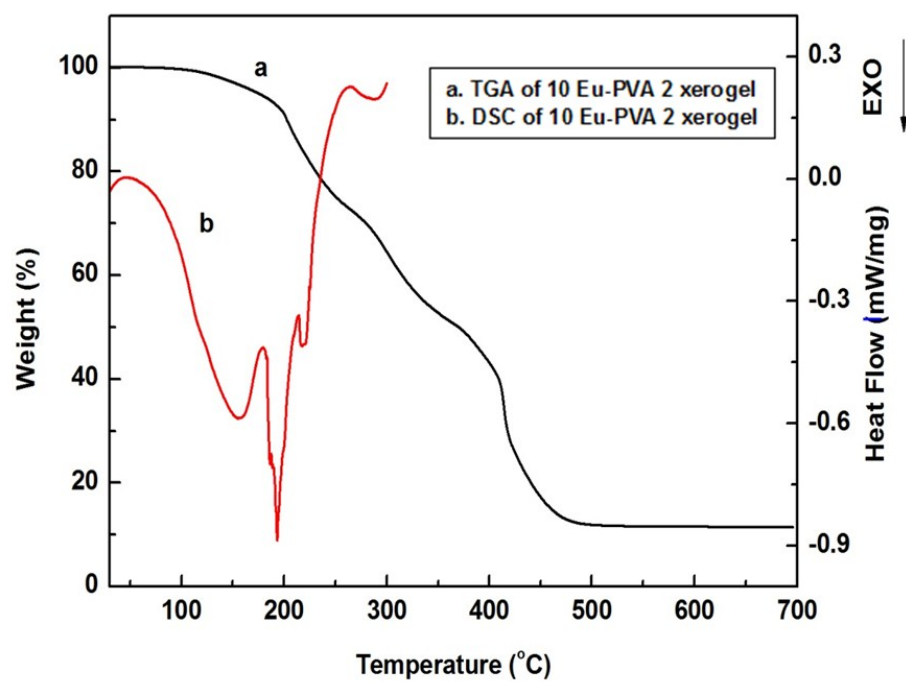


Fig. s5. (a) TGA curves of 10 Eu-PVA 2 xerogel, (b) DSC curves of 10 Eu-PVA 2 xerogel