Supporting Information

Facile hydrothermal synthesis and multicolor-tunable luminescence of YPO$_4$:Ln$^{3+}$ (Ln = Eu, Tb)

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Fig. S1 XRD patterns for the as-prepared products synthesized via hydrothermal reaction at 180 °C for 72 h under the different molar ratio (P:Y) of 2 : 1 (a), 4 : 1 (b), 6 : 1 (c) and 8 : 1 (d).

Fig. S2 SEM image of the Y$_4$O(OH)$_3$NO$_3$ precursor.
**Fig. S3** Schematic illustration of the formation process of cuboid YPO$_4$. 

Y$_2$O(OH)$_3$NO$_3$  

24h  

36h  

72h  

YPO$_4$