Supporting Information

$[Dy(acac)_3(dppn)] \cdot C_2H_5OH: construction of single-ion magnet based \\$ on the square-antiprism dysprosium(III) ion

Gong-Jun Chen, Yang Zhou, Guo-Xia Jin, Yu-Bin Dong*

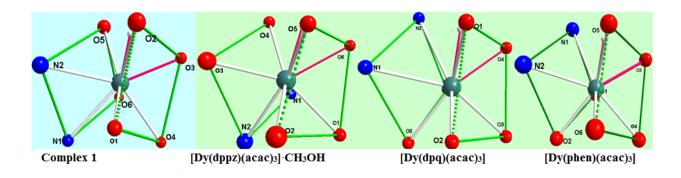


Fig. S1 Another angle views of the structures of 1, $[Dy(dppz)(acac)_3] \cdot CH_3OH$, $[Dy(dpq)(acac)_3]$ and $[Dy(phen)(acac)_3]$.

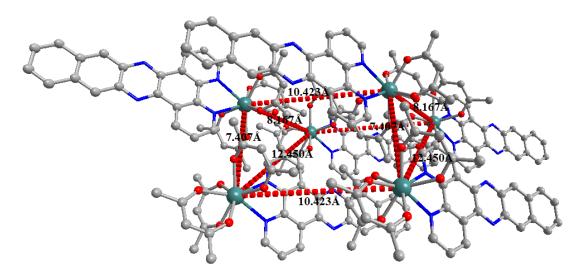


Fig. S2 The Dy...Dy distances found in 1.

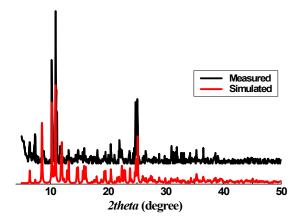


Fig. S3 The powder X-ray diffraction (PXRD) patterns of 1.

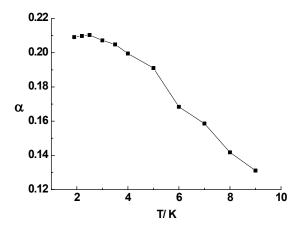


Fig. S4 Fitted broadness parameters α as a function of temperature for 1.

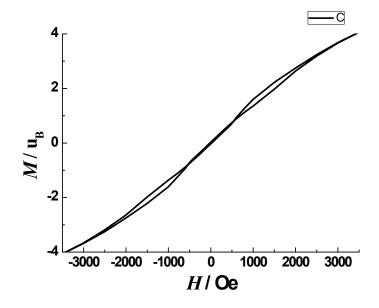


Fig. S5 The magnetic hysteresis loop of 1 at 2 K.