

# **CHEMISTRY**

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### Supporting Information

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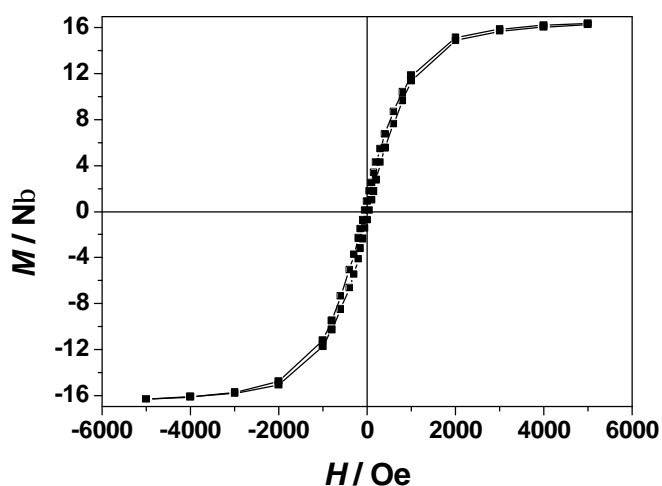
#### **Pure Trinuclear 4f Single-Molecule Magnets: Synthesis, Structures, Magnetism and Ab Initio Investigation**

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## Magnetic measurements

Magnetization data down to 0.5 K were collected with the same magnetometer equipped with a self-built  $^3\text{He}$  cryostat (i-Quantum).



**Figure S1.** Magnetic hysteresis loop at 0.5 K for **1**.

**Table S1.** Relaxation fitting parameters from Least-Squares Fitting of  $c(w)$  data

$T$ (K)	$c_0$ $\text{cm}^3 \text{mol}^{-1}$	$c_1$ $\text{cm}^3 \text{mol}^{-1}$	$c_2$ $\text{cm}^3 \text{mol}^{-1}$	$a_1$	$a_2$	$t_1$	$t_2$
4.6	10.91744	8.2174	0.61877	0.04877	0.61526	0.03617	0.0008
4.8	10.25163	7.72155	0.77444	0.03766	0.59269	0.03077	0.00061
5.0	9.67007	7.2537	0.8774	0.03235	0.57163	0.02575	0.00045
5.2	9.16557	6.82119	0.93922	0.03322	0.55223	0.02129	0.00032
5.4	8.72397	6.44986	0.9648	0.03442	0.53622	0.01745	0.00024
5.7	8.14801	5.96922	0.96269	0.0382	0.51627	0.01281	0.00015
6.0	7.59821	5.52957	1.06913	0.03417	0.48507	0.00917	0.0001