Supporting Information for the paper titled “Versatile lanthanide coordination assemblies due to the synergistic effect of lanthanide constraction and flexibility of the a novel tripocal ligand” to CrystEngComm.

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Figure S1. Perspective view of 1·Ce along the b axis, showing π-π stacking interactions. The solvent molecules are omitted for clarity.

Figure S2. Perspective view of 4·Sm along the c axis, showing hydrogen bonding interactions. Except the hydrogen atoms in the hydrogen bonds, other hydrogen atoms are omitted for clarity.
**Figure S3.** Perspective of 4·Sm, showing the space filling of solvent molecules in one-dimensional channels along the \( a \) axis.

**Figure S4.** Perspective of 7·Dy, showing S…S interactions between the dimers.
**Figure S5.** Perspective of 7·Dy, showing the space filling of solvent molecules in one-dimensional channels along the $a$ axis.

**Figure S6.** TGA curve of 2·Pr (a), 4·Sm (b), 7·Dy (c).