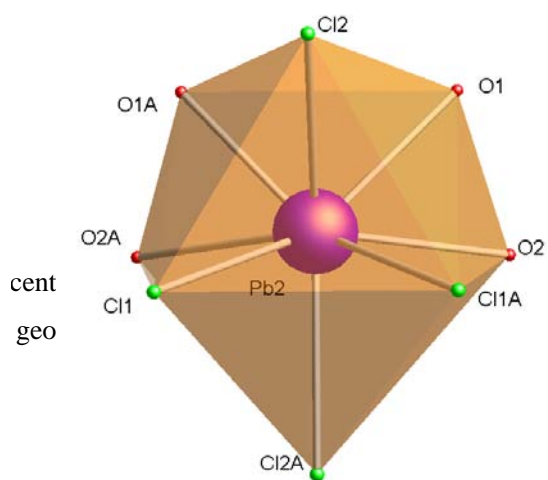
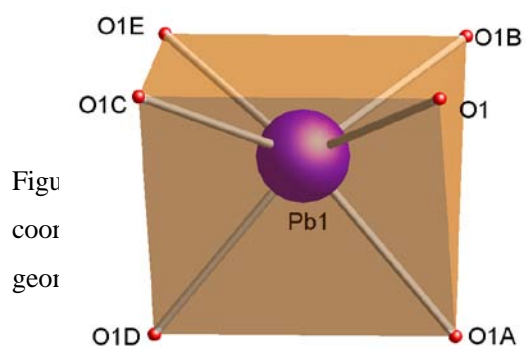
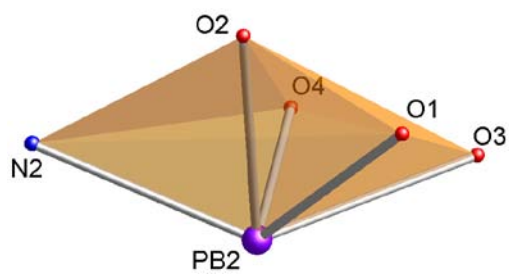
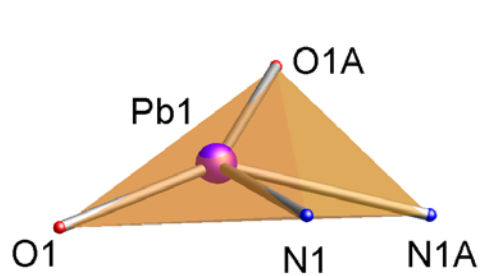
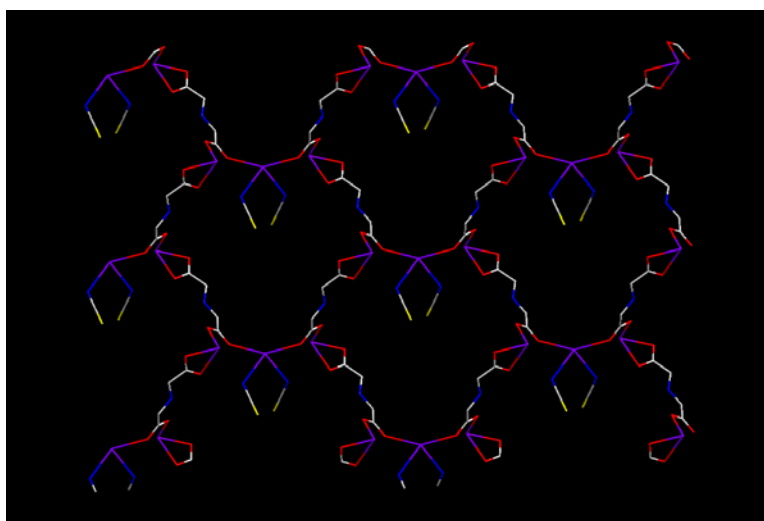


Supporting information



while in **2** six-
coordinate



(a)

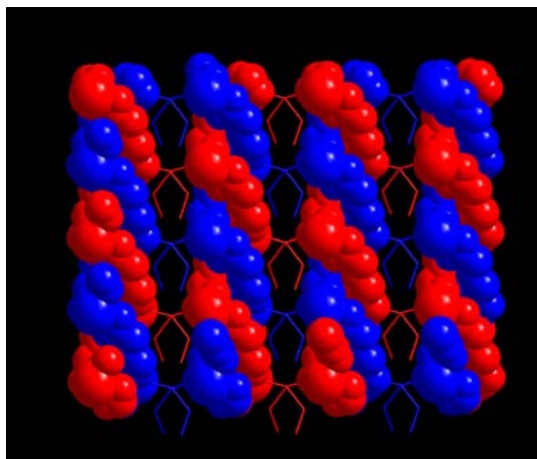
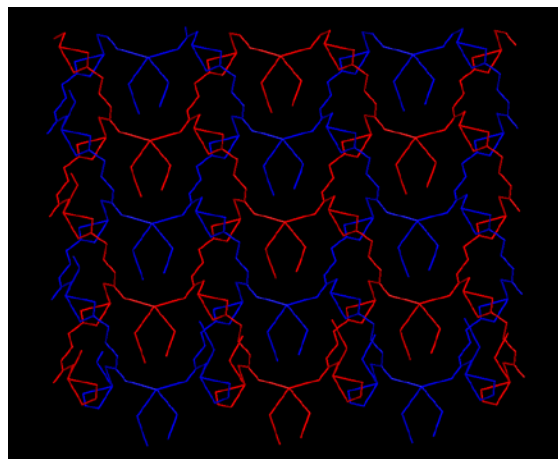


Figure S2 (a) Infinite $\{Pb[IDA]_2\}_n$ helical chains are linked by $Pb(NCS)_2$ structural units forming 2D layers with large cavities; (b) The stick and spacing-filling modes of 2D homo-chiral interpenetrating layers containing double-stranded left-handed helices.

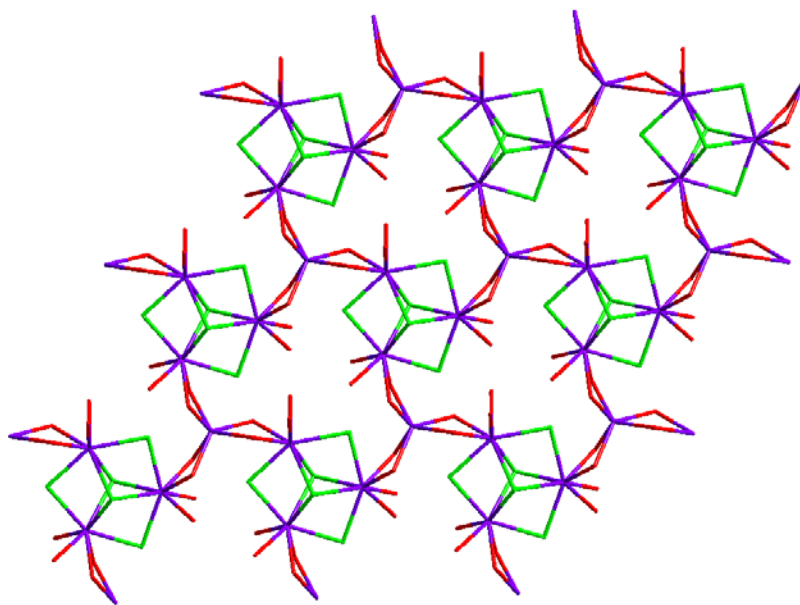


Figure S3 2D inorganic-organic hybrid layers containing Pb_4O_6 cores with Λ geometries.

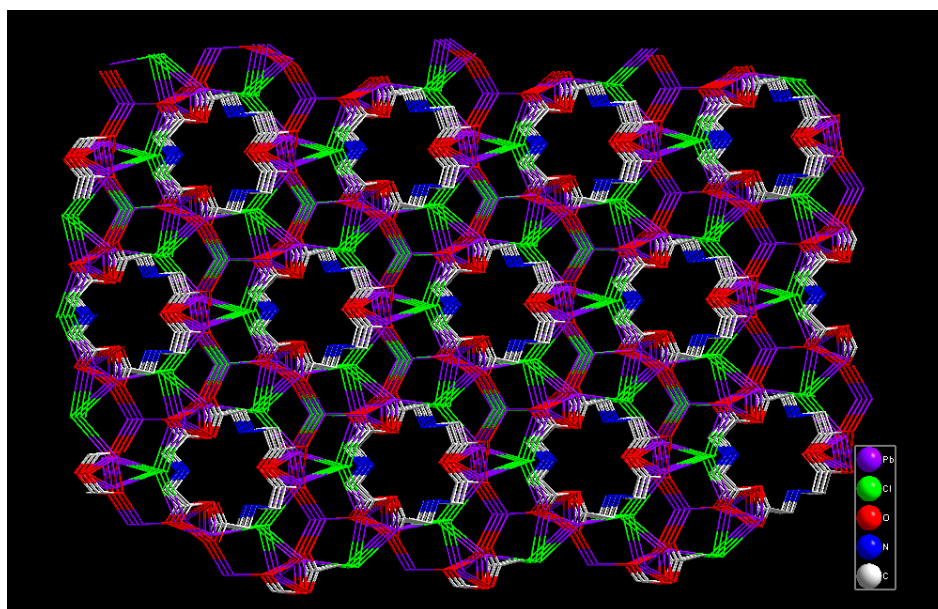


Figure S4 The 3D Pb^{II} framework of **2**.