**Supporting Information**

An antibacterial silver(I) supramolecular network assembled from thiophene-2,5-dicarboxylate and benzimidazole

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Figure S1. Packing network in complex **1**.

 

Figure S2. Experimental and simulated XRD patterns of complex **1**.



Figure S3. Infrared spectra of complex **1**, H2TDC and HBim.



Figure S4. Thermogravimetric curves for complex **1**.



Figure S5. Images of inhibition zones for complex **1** against *E. coli* (a) and *S. aurues* (b) with concentration of blank, 10, 20, 30, 40, 50 and 60 ppm.

Table S1. Selected bond lengths [Å] and angles [°] for complex **1**.

|  |  |  |  |
| --- | --- | --- | --- |
| Ag(1)-N(1) | 2.091(3) | C(2)-N(1)-Ag(1) | 127.6(2) |
| Ag(1)-N(3) | 2.096(3) | C(8)-N(3)-Ag(1) | 130.8(3) |
| N(1)-Ag(1)-N(3) | 174.38(12) | C(14)-N(3)-Ag(1) | 122.9(2) |
| C(1)-N(1)-Ag(1) | 127.4(3) |  |  |