The title compound \([\text{FTMA}]_2[\text{CdI}_4]\) has been synthesized from \([\text{FTMA}]\) (ferrocenylmethyltrimethylammonium iodide) and 3CdSO\(_4\)·8H\(_2\)O and was characterized by elemental analysis, IR spectra and single-crystal X-ray diffraction. The Cd(II) atom has a slightly distorted tetrahedral coordination sphere. In the solid state there are C-H···π interactions between adjacent ferrocenyl cations to generate a chain structure. The luminescence properties of the title compound were investigated in the solid state at room temperature.

**Key words:** Inorganic-Organic Hybrid, Crystal Structure, Luminescence Properties