1. Compound codes and abbreviations:

L1 = (±)-2,7,12-trimethoxy-3,8,13-*tris*(4-pyridylcarboxy)-10,15-dihydro-5*H*-tribenzo[a,d,g]cyclononene

FL1 = (±)-2,7,12-trimethoxy-3,8,13-*tris*(3-fluoro-4-pyridylcarboxy)-10,15-dihydro-5*H*-tribenzo[a,d,g]cyclononene

L2 = (±)-2,7,12-trimethoxy-3,8,13-*tris*(methylbenzimidazol-1-yl)-10,15-dihydro-5*H*-tribenzo[a,d,g]cyclononene

CTG = cyclotriguaiacylene

dppp = bis(diphenylphosphino)propane

en = ethylenediamine

OTf = triflate

NO_3 = nitrate

Pd = palladium

Cl = chloride

MeCN/CD_3CN = D_3-acetonitrile

$MeNO_2$/CD_3NO_2 = D_3-nitromethane

DMSO = D_6-dimethylsulfoxide

$CDCl_3$ = D_1-chloroform

2. Data Deposited

NMR.zip
NMR data as fid or mnova files for L1, FL1, L2, complexes $[Pd_3(dppp)_3(L1)_2]\cdot 6OTf$, $[Pd_3(dppp)_3(FL1)_2]\cdot 6OTf$, starting material $[Pd(dppp)(OTf)_2]$, mixtures of $Pd(en)(NO_3)_2$ with L1/FL1, mixtures of $PdCl_2$ with L2.

Xray.zip

L2, L2·CTG, $[Pd_3(dppp)_3(FL1)_2]\cdot 6(OTf)$ and $[Pd_3Cl_6(L2)_2]$

Final refinement files .res (shelx results file); .hkl data files (pre and post-SQUEEZE); crystallographic information file (.cif) and structure factors (.fcf); raw data and integration details
Powder diffraction pattern for L2·CTG

Analysis.zip
Mass spectra, infrared spectra, CHN analysis