Supplementary Information for

Effects of Structures of HgX_2 Complexes (X = CF₃SO₃ and Cl) with Chiral Bidentate Ligands on Circular Dichroism Spectra

Mari Ikeda,^{†‡} Shunsuke Kuwahara,^{†‡} Shim Sung Lee,[§] and

Yoichi Habata*^{†‡}

[†]Department of Chemistry, Faculty of Science,

[‡]Research Center for Materials with Integrated Properties,

Toho University

2-2-1 Miyama, Funabashi, Chiba 274-8510, Japan

[§]Department of Chemistry and Research Institute of Natural Science,

Gyeongsang National University, Jinju 660-701, S. Korea

Table of Contents

Figure S1 and S2	$Hg(CF_3SO_3)_2$ -induced cold ESI-MS changes of (<i>R</i>)-(-)-1a	3
Figure S3 and S4	Hg(CF ₃ SO ₃) ₂ -induced cold ESI-MS changes of (R)-(+)- 1b	4
Figure S5 and S6	Hg(CF ₃ SO ₃) ₂ -induced cold ESI-MS changes of (R)-(–)- 2a	5
Figure S7 and S8	Hg(CF ₃ SO ₃) ₂ -induced cold ESI-MS changes of (R)-(+)- 2b	6



Figure S1. Hg(CF₃SO₃)₂-induced cold ESI mass spectral changes of (*R*)-(–)-**1a** in CH₃OH at 298 K. ([(*R*)-(–)-**1a**] = 2.5 x 10^{-7} M). L means (*R*)-(–)-**1a**.



Figure S2 Observed ion peaks (top) and theoretical distributions (bottom).



Figure S3. Hg(CF₃SO₃)₂-induced cold ESI mass spectral changes of (*R*)-(+)-1b in CH₃OH at 298 K. ([(*R*)-(+)-1b] = 2.5×10^{-7} M). L means (*R*)-(+)-1b.



Figure S4. Observed ion peaks (top) and theoretical distributions (bottom).



Figure S5. Hg(CF₃SO₃)₂-induced cold ESI mass spectral changes of (*R*)-(–)-**2a** in CH₃OH at 298 K. ([(*R*)-(–)-**2a**] = 2.5×10^{-7} M). L means (*R*)-(–)-**2a**.



Figure S6. Observed ion peaks (top) and theoretical distributions (bottom).



Figure S7. Hg(CF₃SO₃)₂-induced cold ESI mass spectral changes of (*R*)-(+)-**2b** in CH₃OH at 298 K. ([(*R*)-(+)-**2b**] = 2.5×10^{-7} M). L means (*R*)-(+)-**2b**.



Figure S8. Observed ion peaks (top) and theoretical distributions (bottom).