Table S1: Bond Distances for compound (R)-6

PD(1)	- CL(2)	2.299(1)
PD(1)	- S(3)	2.213(1)
PD(1)	- CL(4)	2.315(2)
PD(1)	- N(5)	2.105(5)
S(3)	- O(6)	1.458(5)
S(3)	- C(7)	1.783(6)
S(3)	- C(8)	1.780(6)
N(5)	- C(9)	1.494(7)
N(5)	- C(10)	1.483(8)
N(5)	- C(16)	1.493(8)
C(7)	- C(9)	1.516(9)
C(8)	- C(11)	1.375(9)
C(8)	- C(14)	1.386(8)
C(11)	- C(17)	1.38(1)
C(14)	- C(12)	1.36(1)
C(12)	- C(15)	1.39(1)
C(17)	- C(15)	1.38(1)
C(13)	- C(15)	1.51(1)

Table S2: Bond Angles (degrees) for compound (R)-6

CL(2)	- PD(1) -	S(3)	89.97(6)
CL(2)	- PD(1) -	CL(4)	91.84(7)
S(3)	- PD(1) -	CL(4)	175.83(7)
CL(2)	- PD(1) -	N(5)	175.3(1)
S(3)	- PD(1) -	N(5)	86.9(1)
CL(4)	- PD(1) -	N(5)	91.5(1)
PD(1)	- S(3) -	O(6)	123.7(2)
PD(1)	- S(3) -	C(7)	99.7(2)
O(6)	- S(3) -	C(7)	109.2(3)
PD(1)	- S(3) -	C(8)	110.2(2)
O(6)	- S(3) -	C(8)	108.6(3)
C(7)	- S(3) -	C(8)	103.3(3)
PD(1)	- N(5) -	C(9)	109.5(3)
PD(1)	- N(5) -	C(10)	110.0(4)
C(9)	- N(5) -	C(10)	107.5(5)
PD(1)	- N(5) -	C(16)	110.4(4)
C(9)	- N(5) -	C(16)	110.2(5)
C(10)	- N(5) -	C(16)	109.2(5)
S(3)	- C(7) -	C(9)	105.6(4)
S(3)	- C(8) -	C(11)	120.0(5)
S(3)	- C(8) -	C(14)	119.0(5)
C(11)	- C(8) -	C(14)	120.9(6)
C(8)	- C(11) -	C(17)	119.4(6)
N(5)	- C(9) -	C(7)	111.7(5)
C(8)	- C(14) -	C(12)	118.8(7)
C(14)	- C(12) -	C(15)	121.6(6)
C(11)	- C(17) -	C(15)	120.5(8)
C(12)	- C(15) -	C(17)	118.8(8)
C(12)	- C(15) -	C(13)	121.5(7)
C(17)	- C(15) -	C(13)	119.7(8)

Table S3. Atomic Coordinates for compound R-6

Atom	x/a	y/b	z/c	U(eq)[a]	Occ
PD(1)	0.47148(5)	0.20451(5)	0.80464(2)	0.0328	1.0000
CL(2)	0.2051(2)	0.1997(2)	0.81987(8)	0.0461	1.0000
S(3)	0.5036(2)	0.2564(2)	0.91340(7)	0.0361	1.0000
CL(4)	0.4457(2)	0.1678(2)	0.68921(8)	0.0534	1.0000
N(5)	0.7168(5)	0.1966(6)	0.7977(2)	0.0365	1.0000
O(6)	0.4126(6)	0.3719(6)	0.9500(3)	0.0502	1.0000
C(7)	0.7041(7)	0.3130(9)	0.9128(3)	0.0440	1.0000
C(8)	0.5049(7)	0.0818(7)	0.9613(3)	0.0362	1.0000
C(11)	0.447(1)	-0.0524(9)	0.9336(3)	0.0495	1.0000
C(9)	0.7859(6)	0.1978(9)	0.8671(3)	0.0420	1.0000
C(10)	0.767(1)	0.0509(8)	0.7644(4)	0.0502	1.0000
C(14)	0.5580(8)	0.0856(9)	1.0275(3)	0.0447	1.0000
C(12)	0.550(1)	-0.046(1)	1.0651(4)	0.0549	1.0000
C(16)	0.7762(9)	0.3311(8)	0.7578(4)	0.0491	1.0000
C(17)	0.441(1)	-0.185(1)	0.9725(4)	0.0620	1.0000
C(13)	0.477(2)	-0.328(1)	1.0813(5)	0.0878	1.0000
C(15)	0.489(1)	-0.182(1)	1.0389(3)	0.0598	1.0000

[a] U(eq) is defined as the geometrical mean of the principal axes of the thermal ellipoid

Table S4. Bond distances for compound (3R,4R,Rs,Rs)-7

PD(1)	- S(1)	2.257(2)
PD(1)	- S(2)	2.252(2)
PD(1)	- CL(1)	2.326(2)
PD(1)	- CL(2)	2.320(2)
S(1)	- O(1)	1.482(5)
S(1)	- C(1)	1.845(7)
S(1)	- C(3)	1.789(6)
S(2)	- O(2)	1.482(5)
S(2)	- C(2)	1.845(7)
S(2)	- C(10)	1.780(6)
C(1)	- C(2)	1.545(8)
C(1)	- C(17)	1.55(1)
C(2)	- C(19)	1.56(1)
C(3)	- C(4)	1.401(9)
C(3)	- C(8)	1.41(1)
C(4)	- C(5)	1.40(1)
C(5)	- C(6)	1.36(1)
C(6)	- C(7)	1.426(9)
C(6)	- C(9)	1.529(9)
C(7)	- C(8)	1.380(9)
C(10)	- C(11)	1.408(9)
C(10)	- C(15)	1.39(1)
C(11)	- C(12)	1.39(1)
C(12)	- C(13)	1.39(1)
C(13)	- C(14)	1.41(1)
C(13)	- C(16)	1.53(1)
C(14)	- C(15)	1.39(1)
C(17)	- C(18)	1.52(1)
C(19)	- C(20)	1.54(1)

Table S5. Bond Angles for compound (3R,4R,Rs,Rs)-7

S(1)	- PD(1) -	S(2)	87.02(6)
S(1)	- PD(1) -	CL(1)	89.73(7)
S(2)	- PD(1) -	CL(1)	174.42(8)
S(1)	- PD(1) -	CL(2)	176.63(7)
S(2)	- PD(1) -	CL(2)	90.37(7)
CL(1)	- PD(1) -	CL(2)	93.04(7)
PD(1)	- S(1) -	O(1)	113.7(2)
PD(1)	- S(1) -	C(1)	105.4(2)
O(1)	- S(1) -	C(1)	109.0(4)
PD(1)	- S(1) -	C(3)	114.6(2)
O(1)	- S(1) -	C(3)	109.7(3)
C(1)	- S(1) -	C(3)	103.6(3)
PD(1)	- S(2) -	O(2)	113.3(2)
PD(1)	- S(2) -	C(2)	105.4(2)
O(2)	- S(2) -	C(2)	109.0(3)
PD(1)	- S(2) -	C(10)	116.9(2)
O(2)	- S(2) -	C(10)	108.7(3)
C(2)	- S(2) -	C(10)	102.7(3)
S(1)	- C(1) -	C(2)	105.7(5)
S(1)	- C(1) -	C(17)	111.0(5)
C(2)	- C(1) -	C(17)	115.0(6)
S(2)	- C(2) -	C(1)	106.5(5)
S(2)	- C(2) -	C(19)	112.8(5)
C(1)	- C(2) -	C(19)	115.3(6)
S(1)	- C(3) -	C(4)	116.7(6)
S(1)	- C(3) -	C(8)	121.6(5)
C(4)	- C(3) -	C(8)	121.7(6)
C(3)	- C(4) -	C(5)	117.6(7)
C(4)	- C(5) -	C(6)	122.4(6)
C(5)	- C(6) -	C(7)	118.8(6)
C(5)	- C(6) -	C(9)	121.5(6)
C(7)	- C(6) -	C(9)	119.7(7)
C(6)	- C(7) -	C(8)	121.0(7)
C(3)	- C(8) -	C(7)	118.4(6)
S(2)	- C(10) -	C(11)	116.7(6)
S(2)	- C(10) -	C(15)	122.2(5)
C(11)	- C(10) -	C(15)	121.2(6)
C(10)	- C(11) -	C(12)	118.0(7)
C(11)	- C(12) -	C(13)	122.2(6)
C(12)	- C(13) -	C(14)	118.4(6)
C(12)	- C(13) -	C(16)	120.0(7)
C(14)	- C(13) -	C(16)	121.6(7)
C(13)	- C(14) -	C(15)	120.8(7)
C(10)	- C(15) -	C(14)	119.3(7)
C(1)	- C(17) -	C(18)	114.5(6)
C(2)	- C(19) -	C(20)	116.2(6)

Table S6. Atomic coordinates for compound (3R,4R,Rs,Rs)-7

Atom	x/a	y/b	z/c	U(eq)[a]	Occ
PD(1)	0.21430(7)	0.15407(8)	0.16108(4)	0.0458	1.0000
S(1)	0.3745(2)	0.1867(1)	-0.0079(1)	0.0491	1.0000
S(2)	0.4240(2)	0.2313(1)	0.2727(1)	0.0461	1.0000
CL(1)	-0.0048(3)	0.0875(2)	0.0340(2)	0.0641	1.0000
CL(2)	0.0651(3)	0.1189(2)	0.3412(2)	0.0648	1.0000
O(1)	0.4744(7)	0.1046(4)	-0.0550(4)	0.0623	1.0000
O(2)	0.3665(7)	0.3258(3)	0.3150(4)	0.0567	1.0000
C(1)	0.5326(9)	0.2793(5)	0.0420(6)	0.0496	1.0000
C(2)	0.6116(9)	0.2453(5)	0.1676(6)	0.0494	1.0000
C(3)	0.2521(9)	0.2408(5)	-0.1327(5)	0.0471	1.0000
C(4)	0.248(1)	0.1924(5)	-0.2461(6)	0.0554	1.0000
C(5)	0.161(1)	0.2362(6)	-0.3472(6)	0.0572	1.0000
C(6)	0.085(1)	0.3231(5)	-0.3385(6)	0.0528	1.0000
C(7)	0.092(1)	0.3709(6)	-0.2220(6)	0.0558	1.0000
C(8)	0.1697(9)	0.3294(5)	-0.1187(6)	0.0534	1.0000
C(9)	-0.006(1)	0.3702(6)	-0.4505(6)	0.0673	1.0000
C(10)	0.5214(8)	0.1699(5)	0.4012(5)	0.0447	1.0000
C(11)	0.579(1)	0.2254(5)	0.5028(6)	0.0550	1.0000
C(12)	0.666(1)	0.1804(5)	0.6004(6)	0.0533	1.0000
C(13)	0.693(1)	0.0829(5)	0.6027(6)	0.0499	1.0000
C(14)	0.627(1)	0.0291(6)	0.5021(7)	0.0580	1.0000
C(15)	0.543(1)	0.0722(5)	0.4015(6)	0.0554	1.0000
C(16)	0.791(1)	0.0370(6)	0.7127(7)	0.0658	1.0000
C(17)	0.670(1)	0.2985(6)	-0.0599(6)	0.0602	1.0000
C(18)	0.618(1)	0.3764(6)	-0.1508(7)	0.0694	1.0000
C(19)	0.762(1)	0.3082(6)	0.2237(7)	0.0567	1.0000
C(20)	0.726(1)	0.4156(6)	0.2263(9)	0.0742	1.0000

[a] U(eq) is defined as the geometrical mean of the principal axes of the thermal ellipsoid.