

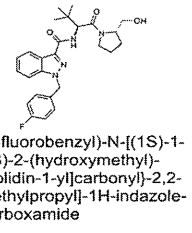
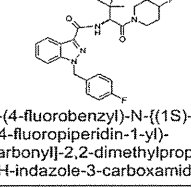
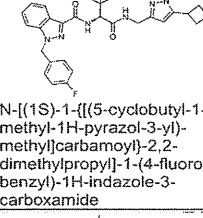
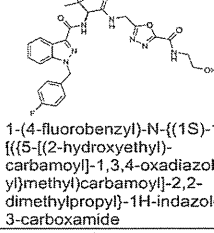
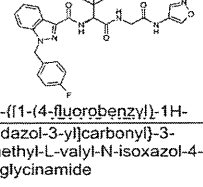
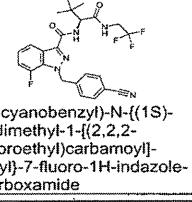
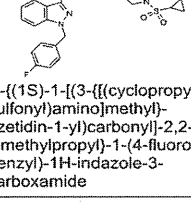
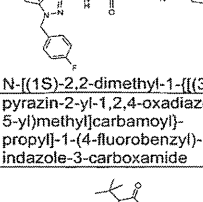
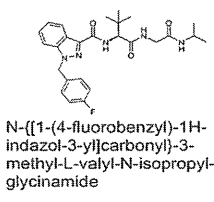
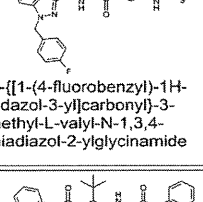
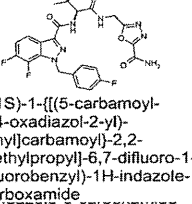
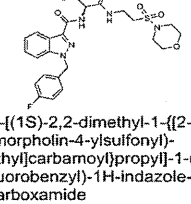
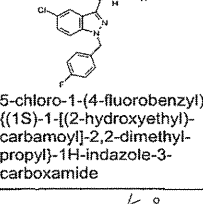
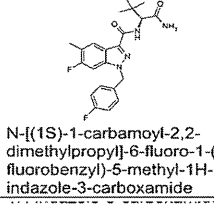
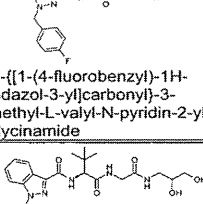
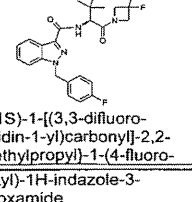
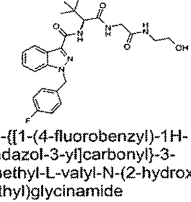
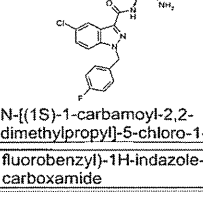
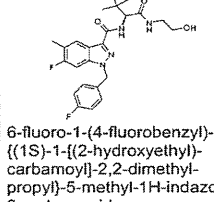
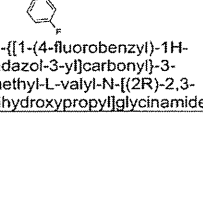
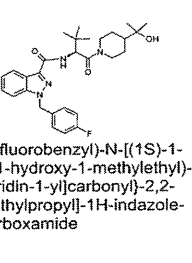
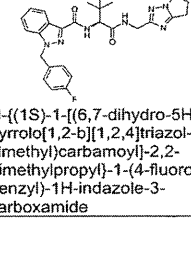
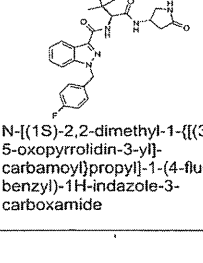
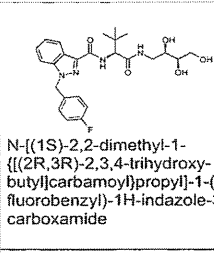
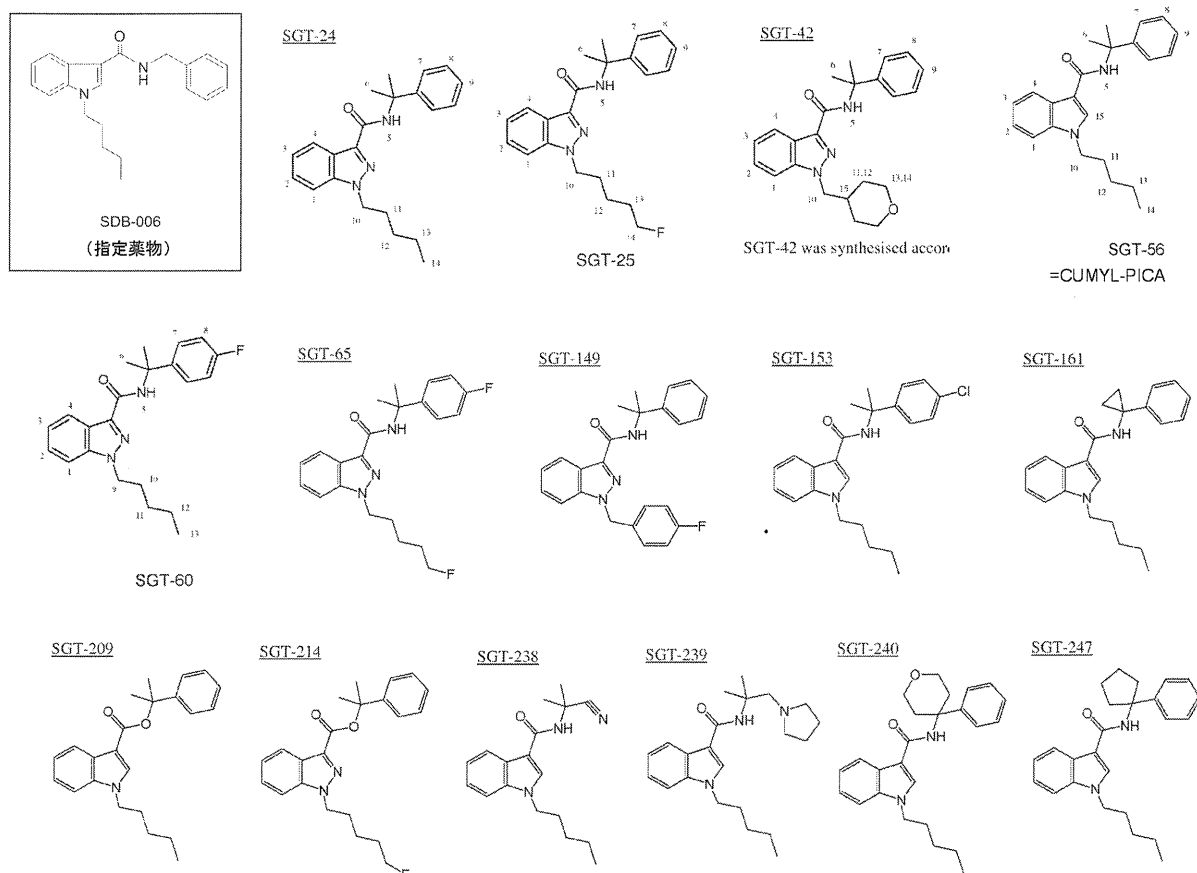
306 0.78		341 3.74		416 9.26		462 2.29		518 1.80	
309 1.59		345 0.61		418 0.78		493 0.93		519 0.95	
328 0.71		357 2.93		428 0.89		509 0.45		520 1.88	
330 0.20		376 1.52		429 0.44		511 0.68		523 5.22	
338 3.43		415 8.69		459 2.78		516 4.28			

Fig. 2D



Compound	CB ₁ EC ₅₀ (nM)	CB ₂ EC ₅₀ (nM)
SGT-24	0.15	0.41
SGT-25	< 0.1 #	0.37
SGT-42	0.10	0.59
SGT-56	0.66	13
SGT-60	0.17	0.69
SGT-65	< 0.1 #	0.61
SGT-149	< 0.1 #	0.21
SGT-153	0.72	5.7
SGT-161	2.8	29
SGT-209	N.C. ##	N.C. ##
SGT-214	2200	94
SGT-238	2500	6300
SGT-239	200	440
SGT-240	3.6	11
SGT-247	10	4.7

EC₅₀ value below the lowest test concentration. Concentration-response curve shows more than 50 % effect at the lowest validated testing concentration.

EC₅₀ value not calculable. Concentration-response curve shows less than 25% effect at the highest validated testing concentration.

Fig. 3

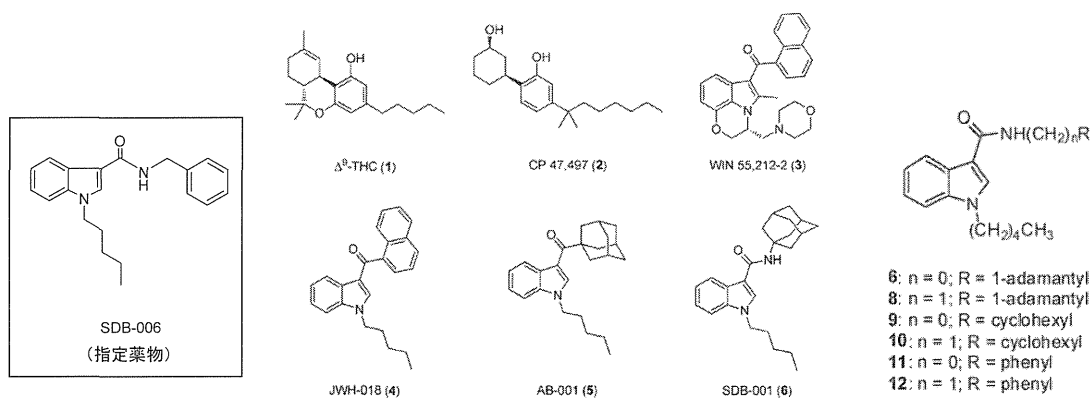


Table 1. Functional Activity of Δ^9 -THC, WIN 55,212-2, and 5–12 at Rat CB₁ and Human CB₂ Receptors

compd	rCB ₁		hCB ₂		CB ₁ selectivity ^a
	pEC ₅₀ ± SEM (EC ₅₀ nM)	max ± SEM (% WIN 55,212-2)	pEC ₅₀ ± SEM (EC ₅₀ nM)	max ± SEM (% WIN 55,212-2)	
1 (Δ^9 -THC)	7.24 ± 0.12 (58)	78 ± 5	n.d.	13 (at 10 μ M)	
3 (WIN 55,212-2)	7.57 ± 0.14 (27)		6.93 ± 0.1 (117)		4.3
5 (AB-001)	7.46 ± 0.16 (35)	105 ± 8	7.32 ± 0.12 (48)	86 ± 6	1.4
6 (SDB-001)	7.47 ± 0.12 (34)	98 ± 6	7.54 ± 0.11 (29)	91 ± 5	0.9
7 (AB-002)	7.43 ± 0.13 (37)	90 ± 6	7.05 ± 0.13 (89)	82 ± 7	2.4
8 (SDB-002)	7.37 ± 0.12 (43)	84 ± 6	7.24 ± 0.26 (57)	23 ± 4	1.3
9 (SDB-003)	7.43 ± 0.16 (37)	93 ± 7	6.99 ± 0.08 (102)	95 ± 5	2.7
10 (SDB-004)	7.79 ± 0.19 (16)	94 ± 8	6.67 ± 0.09 (216)	71 ± 5	13.1
11 (SDB-005)	7.68 ± 0.11 (21)	99 ± 6	6.86 ± 0.12 (140)	74 ± 6	6.7
12 (SDB-006)	7.73 ± 0.11 (19)	85 ± 5	6.88 ± 0.22 (134)	68 ± 9	7.2

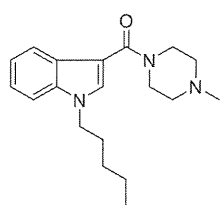
^aCB₁ selectivity expressed as the ratio of CB₂ EC₅₀ to CB₁ EC₅₀. n.d. = not determined.

Fig. 4

TABLE 1

	Ki (nM)		Ki (nM)	
	CB1	CB2	CB1	CB2
1	6.84	0.147		
2	47.5	8.74		
3	2.28	0.309		
4	1.65	1.34		
5	0.596	0.164		
6	443	20.9		
7			0.268	0.135
8			13.7	27.0
9			450.6	234.6
10			15.0	8.04
11			1846	84.7

Fig. 5



MEPIRAPIM
(指定薬物)

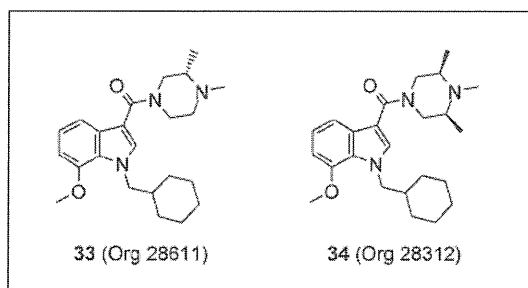


Table 3 Profile of CB1 agonists in *in vitro* hCB1 and hCB2 binding assays

	CB1 pKi	CB2 pKi
CP 55,940	9.5	9.5
WIN 55,212-2	7.9	8.6
Org 28611	8.9	8.8
Org 28312	8.9	9.1

Fig. 6

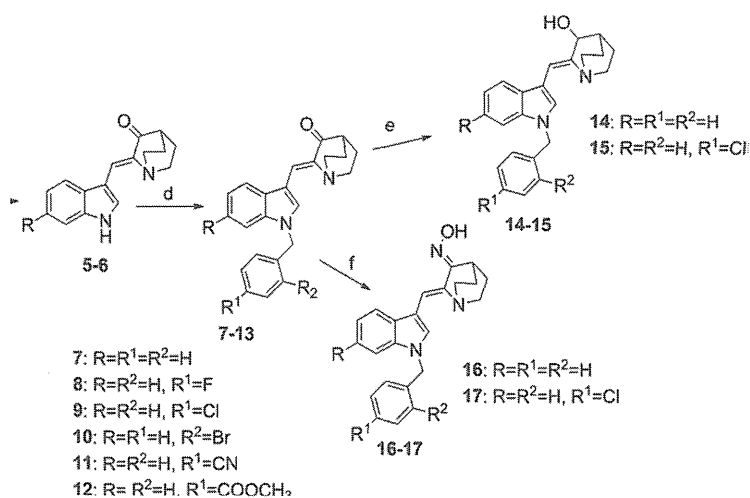


Table 1

K_i values for (Z)-2-(N-benzylindol-3-ylmethylene) quinucridin-3-ones (7–13) at CB1 and CB2 receptors

Compound	<i>K_i</i> (nM)	
	CB1	CB2
7	135 ± 44.1	11.7 ± 5.55
8	9.23 ± 0.64	1.33 ± 0.45
9	31.7 ± 9.25	20.3 ± 7.43
10	629 ± 201	333 ± 157
11	55.3 ± 8.89	114 ± 36.2
12	953 ± 162	588 ± 237
13	85.7 ± 15.9	2.50 ± 0.49
14	540 ± 64.2	55.3 ± 3.10
15	85.3 ± 42.5	113 ± 2.03
16	357 ± 52.2	68.6 ± 7.27
17	95.7 ± 2.03	107 ± 8.75

Fig. 7

		CB1: <i>K_i</i> (nM)
		 Adduct (Salt) 2 4.93
		 Adduct (Salt) 1 4.78

Fig. 8

