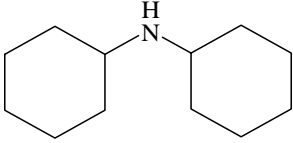


Dicyclohexylamine (ジシクロヘキシルアミン)

Experimental Data-1

(B9809-1/2)

Chemical Name	; <u>Dicyclohexylamine</u>
	; <u>N-Cyclohexylcyclohexanamine</u>
	; <u>Dodecahydrodiphenylamine</u>
	<u>N-シクロヘキシルシクロヘキサニン</u>
Molecular Weight	; 181.32
Melting Point	; -2°C[Aldrich]
Boiling Point	; 256°C[Aldrich]
Flashing Point	; 96°C[Aldrich]
Molecular Formula	; C ₁₂ H ₂₃ N
Chemical Structure	
CAS No.	; 101-83-7
MITI No.	; (3)-2259, (3)-2686
ML No.	; -
Specified Chemical Substances	; -
Source of Substance	; Tokyo Kasei Kogyo Co., Ltd.
Lot No.	; GF01
Purity	; >99%
Vehicle	; DMSO

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(128)	(125)	(8)	(13)	(67)	(87)	(16)	(22)	(7)	(8)
1 .22	127 139 (133)	145 107 (126)	7 5 (6)	8 6 (7)	34 51 (43)	84 81 (83)	9 10 (10)	23 22 (23)	10 9 (10)	6 10 (8)
4 .88	123 145 (134)	130 136 (133)	2 13 (8)	18 11 (15)	67 52 (60)	92 98 (95)	15 8 (12)	20 24 (22)	7 3 (5)	10 7 (9)
19 .5	133 131 (132)	136 142 (139)	9 14 (12)	3 9 (6)	51 70 (61)	96 79 (88)	15 16 (16)	29 14 (22)	5 2 (4)	13 2 (8)
78 .1	139 148 (144)	138 130 (134)	9 10 (10)	10 6 (8)	59 61 (60)	92 79 (86)	13 13 (13)	21 24 (23)	3 9 (6)	3 7 (5)
313	126 129 (128)	144 109 (127)	6 7 (7)	11 11 (11)	68 59 (64)	77 89 (83)	23 13 (18)	26 17 (22)	10 6 (8)	9 8 (9)
1250	136 135 (136)	128 145 (137)	14 5 (10)	1 2 (2)	72 49 (61)	71 68 (70)	16 13 (15)	18 24 (21)	8 8 (8)	8 10 (9)
5000	0 * 0 * (0 *)	101 * 108 * (105 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	63 * 63 * (63 *)	0 * 0 * (0 *)	11 * 18 * (15 *)	0 * 0 * (0 *)	3 * 7 * (5 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (648)	2-AA (1070)	NaN ₃ (462)	2-AA (266)	AF-2 (776)	2-AA (741)	AF-2 (429)	2-AA (404)	9-AA (459)	2-AA (198)

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

* Growth inhibition was observed.

Experimental Data-2

(B9809-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(135)	(140)	(9)	(10)	(70)	(94)	(16)	(25)	(6)	(7)
78 .1	139	133	8	9	36	81	16	20	3	6
	144	152	8	7	57	94	10	29	7	8
	(142)	(143)	(8)	(8)	(47)	(88)	(13)	(25)	(5)	(7)
156	146	127	7	8	62	98	20	21	2	8
	116	144	7	6	70	99	23	23	7	5
	(131)	(136)	(7)	(7)	(66)	(99)	(22)	(22)	(5)	(7)
313	134	162	8	14	72	106	17	25	7	9
	146	136	3	5	57	85	16	24	7	6
	(140)	(149)	(6)	(10)	(65)	(96)	(17)	(25)	(7)	(8)
625	143	129	8	6	85	71	18	23	3	8
	133	141	2	9	57	83	15	24	3	5
	(138)	(135)	(5)	(8)	(71)	(77)	(17)	(24)	(3)	(7)
1250	134	155	13	6	79	71	24	26	5	7
	99	133	9	10	69	85	13	30	6	5
	(117)	(144)	(11)	(8)	(74)	(78)	(19)	(28)	(6)	(6)
2500	0 *	122	0 *	13 *	0 *	77 *	0 *	23	0 *	5
	0 *	119	0 *	7 *	0 *	81 *	0 *	25	0 *	9
	(0 *)	(121)	(0 *)	(10 *)	(0 *)	(79 *)	(0 *)	(24)	(0 *)	(7)
5000	0 *	0 *	0 *	0 *	0 *	39 *	0 *	18 *	0 *	2 *
	0 *	0 *	0 *	0 *	0 *	61 *	0 *	15 *	0 *	5 *
	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(50 *)	(0 *)	(17 *)	(0 *)	(4 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (567)	2-AA (1110)	NaN ₃ (445)	2-AA (257)	AF-2 (590)	2-AA (678)	AF-2 (513)	2-AA (389)	9-AA (399)	2-AA (149)