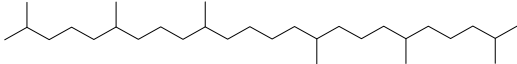


Experimental Data-1

(B0305-1/2)

2,6,10,15,19,23-Hexamethyltetracosane

(2,6,10,15,19,23-ヘキサメチルトテトラコサン)

Chemical Name	; <u>2,6,10,15,19,23-Hexamethyltetracosane</u>	
Synonym	; <u>Squalane</u> <u>Dodecahydrosqualene</u> <u>Perhydrosqualene</u>	
Molecular Weight	; 422.82	
Melting Point	; -38°C [Merck]	
Boiling Point	; 263°C(10mmHg)[Merck]	
Flashing Point	; 218°C [Merck]	
Molecular Formula	; C ₃₀ H ₆₂	
Chemical Structure		
CAS No.	; 111-01-3	
MITI No.	; (9)-1317, (2)-10	
ML No.	; -	
Specified Chemical Substances	; -	
Source of Substance	; Kanto Chemical Co., Inc.	
Lot No.	; 406C2265	
Purity	; >98.0%	
Vehicle	; DMSO	

Mutagenicity in Bacterial Test: Negative

IARC Evaluation ; Not yet cited

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(98)	(106)	(11)	(9)	(62)	(99)	(13)	(24)	(8)
1 .22	115 97 (106)	116 136 (126)	10 9 (10)	6 9 (8)	51 68 (60)	86 83 (85)	9 16 (13)	24 21 (23)	7 6 (7)	13 10 (12)
4 .88	104 127 (114)	106 102 (104)	11 6 (9)	8 10 (9)	51 61 (56)	92 79 (86)	13 17 (15)	32 29 (31)	7 8 (8)	10 16 (13)
19 .5	111 106 (109)	124 116 (120)	8 5 (7)	6 10 (8)	67 52 (60)	89 92 (91)	11 22 (17)	20 26 (23)	3 6 (5)	13 8 (11)
78 .1	96 108 (102)	101 114 (108)	10 13 (12)	6 8 (7)	59 52 (56)	71 105 (88)	15 13 (14)	21 28 (25)	14 8 (11)	11 10 (11)
313	94 113 (104)	112 114 (113)	6 13 (10)	8 8 (8)	60 47 (54)	87 85 (86)	11 17 (14)	29 13 (21)	3 5 (4)	10 7 (9)
1250	111 111 (111)	107 107 (107)	14 14 (14)	5 15 (10)	74 61 (68)	114 93 (104)	18 22 (20)	18 25 (22)	6 3 (5)	9 6 (8)
5000	94 81 (88)	117 116 (117)	7 6 (7)	7 9 (8)	68 51 (60)	113 92 (103)	13 17 (15)	29 25 (27)	7 5 (6)	14 9 (12)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (635)	2-AA (1151)	NaN ₃ (317)	2-AA (209)	AF-2 (1223)	2-AA (932)	AF-2 (428)	2-AA (435)	9-AA (377)	2-AA (196)

Experimental Data-2

(B0305-2/2)

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(91)	(109)	(8)	(9)	(64)	(99)	(17)	(17)	(7)	(7)
	81	106	8	7	60	98	11	15	5	7
313	94 (88)	109 (108)	5 (7)	5 (6)	54 (57)	83 (91)	16 (14)	20 (18)	8 (7)	9 (8)
	94	83	7	8	68	105	15	28	9	8
625	84 (89)	99 (91)	9 (8)	11 (10)	55 (62)	81 (93)	18 (17)	21 (25)	5 (7)	11 (10)
	101	93	13	9	74	83	14	11	6	7
1250	97 (99)	98 (96)	10 (12)	7 (8)	70 (72)	96 (90)	15 (15)	20 (16)	7 (7)	5 (6)
	83	87	10	14	54	90	18	20	11	5
2500	94 (89)	94 (91)	13 (12)	5 (10)	85 (70)	93 (92)	17 (18)	17 (19)	5 (8)	7 (6)
	119	112	10	8	87	112	15	18	7	9
5000	87 (103)	82 (97)	7 (9)	8 (8)	78 (83)	97 (105)	10 (13)	16 (17)	6 (7)	8 (9)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (658)	2-AA (1140)	NaN ₃ (325)	2-AA (251)	AF-2 (1283)	2-AA (1030)	AF-2 (480)	2-AA (428)	9-AA (354)	2-AA (126)