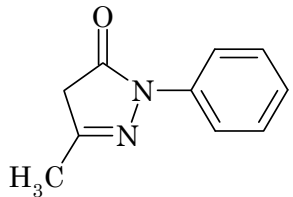


Experimental Data-1

(B0405-1/2)

3-Methyl-1-phenyl-5-pyrazolone (3-メチル-1-フェニル-5-ピラゾロン)

Chemical Name	; 3-Methyl-1-phenyl-5-pyrazolone	
Synonym	; 3-Methyl-1-phenyl-2-pyrazolin-5-one 1-Phenyl-3-methyl-5(H)-pyrazolone 2,4-Dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one 3-メチル-1-フェニル-2-ピラゾリン-5-オン	
Molecular Weight	; 174.20	
Melting Point	; 129-130°C [Merck]	
Boiling Point	; 267°C(265mmHg)[Merck]	
Flashing Point	; -	
Molecular Formular	; C ₁₀ H ₁₀ N ₂ O	
Chemical Structure;		
CAS No.	; 89-25-8	
MITI No.	; (5)-287	
ML No.	; -	
Specified Chemical Substances;	-	
Source of Substance;	Tokyo Kasei Kogyo Co., Ltd.	
Lot No.	; GM01	
Purity	; ≥95%	
Vehicle	; DMSO	

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2avrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(106)	(116)	(11)	(11)	(61)	(98)	(15)	(22)	(9)
1 .22	130 (124)	131 (126)	8 (11)	14 (12)	69 (74)	101 (95)	18 (18)	21 (20)	1 (5)	7 (11)
4 .88	123 (127)	117 (121)	14 (11)	11 (9)	75 (66)	106 (94)	11 (13)	21 (17)	2 (5)	5 (6)
19 .5	116 (114)	138 (139)	11 (12)	8 (11)	53 (52)	107 (103)	5 (9)	15 (18)	6 (5)	7 (6)
78 .1	107 (102)	141 (140)	8 (9)	9 (12)	62 (70)	92 (102)	17 (16)	18 (18)	8 (9)	10 (9)
313	109 (108)	135 (150)	6 (7)	9 (14)	60 (64)	109 (105)	18 (16)	24 (24)	3 (6)	13 (11)
1250	94 (100)	117 (117)	9 (9)	9 (10)	63 (59)	127 (122)	21 (21)	14 (13)	6 (10)	7 (7)
5000	134 (136)	164 (160)	6 (8)	7 (7)	91 (99)	145 (141)	14 (18)	11 (15)	7 (5)	5 (7)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (660)	2-AA (1055)	NaN ₃ (255)	2-AA (219)	AF-2 (1264)	2-AA (812)	AF-2 (365)	2-AA (348)	9-AA (402)	2-AA (196)

Mutagenicity in Bacterial Test: Negative

IARC Evaluation ; Not yet cited

Experimental Data-2

(B0405-2/2)

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	(104)	(111)	(9)	(9)	(61)	(90)	(16)	(25)	(8)	(8)
	78	108	8	14	70	104	16	25	11	11
313	(87)	(115)	(12)	(14)	(62)	(107)	(13)	(24)	(9)	(10)
	90	107	9	15	69	113	23	18	8	8
625	(96)	(111)	(10)	(15)	(58)	(118)	(23)	(21)	(7)	(10)
	111	142	14	7	60	113	28	21	6	9
1250	(106)	(136)	(10)	(11)	(66)	(117)	(21)	(24)	(5)	(8)
	111	123	9	7	84	127	16	15	6	14
2500	(106)	(129)	(8)	(8)	(80)	(124)	(16)	(18)	(8)	(12)
	129	178	7	6	117	134	10	11	5	7
5000	(140)	(166)	(7)	(7)	(105)	(135)	(14)	(11)	(6)	(8)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (729)	2-AA (970)	NaN ₃ (289)	2-AA (232)	AF-2 (1151)	2-AA (756)	AF-2 (438)	2-AA (379)	9-AA (381)	2-AA (137)