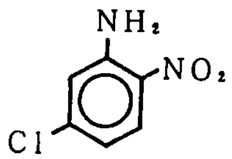
5-Chloro-2-nitroaniline (5-クロロ-2-ニトロアニリン)

Chemical Name: 5-Chloro-2-nitroaniline
Synonym 5-Chloro-2-nitrobenzenamine
Benzenamine, 5-chloro-2-nitro-
Molecular weight: 172.57
Melting point: 128~129℃
Boiling point: ℃

Chemical Structure



CAS No : 1635-61-6
MITI No : (3)-407
Source of Substance:Tokyo Kasei Kogyo Co.Ltd
Lot.No.: AX01
Purity: 99 %
Vehicle: DMSO

Mutagenicity
in Bacterial Test : Positive

IARC Evaluation : not yet cited

Experimental Data

Con. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DSMO	(130)	(112)	(9)	(15)	(18)	(22)	(11)	(20)	(8)	(12)
	113	113	12	17	17	24	20	31	6	15
	120	117	12	15	10	32	16	13	8	9
0.0763	(117)	(115)	(12)	(16)	(14)	(28)	(18)	(22)	(7)	(12)
	140	127	16	12	20	21	15	18	10	6
	166	128	10	14	16	23	10	24	6	5
0.305	(153)	(128)	(13)	(13)	(18)	(22)	(13)	(21)	(8)	(6)
	145	119	20	12	25	17	18	18	9	7
	116	136	13	9	15	16	8	18	14	9
1.22	(131)	(128)	(17)	(11)	(20)	(17)	(13)	(18)	(12)	(8)
	127	133	14	10	20	22	18	16	9	9
	111	140	15	12	15	37	13	23	9	9
4.88	(119)	(137)	(15)	(11)	(18)	(30)	(16)	(20)	(9)	(9)
	128	121	13	12	13	20	17	18	3	10
	87	127	8	5	22	31	20	27	6	12
19.5	(108)	(124)	(11)	(9)	(18)	(26)	(19)	(23)	(5)	(11)
	136	148	5	6	10	23	10	20	9	8
	124	184	5	8	9	22	9	32	8	17
78.1	(130)	(166)	(5)	(7)	(10)	(23)	(10)	(26)	(9)	(13)
	89	218	7	12	9	27	16	43	6	5
	96	218	14	16	9	16	17	43	8	8
313	(93)	(218)	(11)	(14)	(9)	(22)	(17)	(43)	(7)	(7)
	30*	147	1	21	8	8	44	31	2	5
	27	135	3	15	2	13	42	32	1	3
1250	(29*)	(141)	(2)	(18)	(5)	(11)	(43)	(32)	(2)	(4)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	−	−	−	−	−	−	+	+	−	−
Specific mutagenicity							25.6	73.5		
Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(705)	(879)	(250)	(282)	(171)	(793)	(456)	(282)	(338)	(188)

Experimental Data

Con. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DSMO	(127)	(114)	(12)	(15)	(18)	(26)	(12)	(19)	(7)	(10)
	94	162	20	22	16	16	18	37	16	13
	157	183	15	14	31	23	23	30	8	12
39.1	(126)	(173)	(18)	(18)	(24)	(20)	(21)	(34)	(12)	(13)
	110	179	10	21	20	36	18	51	8	12
	114	177	10	22	9	17	15	36	5	9
78.1	(112)	(178)	(10)	(22)	(15)	(27)	(17)	(44)	(7)	(11)
	71	178	9	30	20	16	17	47	7	9
	86	188	10	15	14	25	14	53	5	17
156	(79)	(183)	(10)	(23)	(17)	(21)	(16)	(50)	(6)	(13)
	71	166	10	18	12	13	18	43	5	15
	81	194	10	27	9	12	12	34	6	12
313	(76)	(180)	(10)	(23)	(11)	(13)	(15)	(39)	(6)	(14)
	43	126	6	12	7	7	27	44	5	7
	38	126	7	22	5	7	29	32	3	7
625	(41)	(126)	(7)	(17)	(6)	(7)	(28)	(38)	(4)	(7)
	3*	52	1*	12	5*	5	9*	14*	3*	1
	3*	37	0*	9	2*	7	7*	3*	1*	3
1250	(3*)	(45)	(1*)	(11)	(4*)	(6)	(8*)	(9*)	(2*)	(2)
	0*	0*	6*	1*	0*	2*	0*	0*	0*	2*
	0*	1*	2*	1*	0*	2*	0*	0*	0*	1*
2500	(0*)	(1*)	(4*)	(1*)	(0*)	(2*)	(0*)	(0*)	(0*)	(2*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	−	−	−	−	−	−	+	+	−	−
Specific mutagenicity							25.6	320		
Positive Control	AF2 (808)	2AA (1049)	NaN_3 (319)	2AA (282)	AF2 (189)	2AA (876)	AF2 (428)	2AA (335)	9AA (350)	2AA (212)