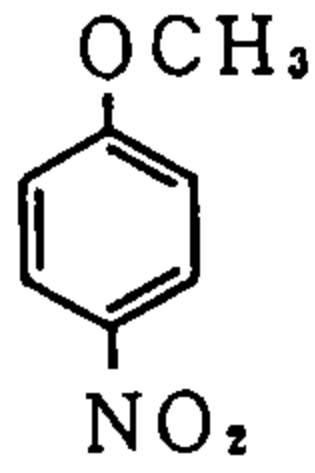


p-Nitroanisole (p-ニトロアニソール)

Chemical Name:	p-Nitroanisole
Synonym	p-Methoxynitrobenzene
	Benzene, 1-methoxy-4-nitro-
Molecular weight:	153.14
Melting point:	54°C
Boiling point:	260°C
Chemical Structure	
CAS RN :	100-17-4
MITI RN:	(3)-787
Source of Substance:	Tokyo Kasei Kogyo Co. Ltd
Lot. No. :	FBY02
Purity :	99 %
Vehicle :	DMSO

Mutagenicity  
in Bacterial Test : Positive

IARC Evaluation : not yet cited

Judgement  
Specific Mutagenicity  
Positive  
Control

Con. μg/ plate	Experimental Data									
	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	
DMSO	(125)	(122)	(11)	(15)	(31)	(32)	(19)	(18)	(8)	(15)
	115	129	6	16	31	43	13	21	8	17
	124	119	15	8	24	48	11	25	6	13
0.0763	(120)	(124)	(11)	(12)	(28)	(46)	(12)	(23)	(7)	(15)
	115	115	7	13	28	41	21	20	11	8
	141	144	8	11	26	40	23	21	10	10
0.305	(128)	(130)	(8)	(12)	(27)	(41)	(22)	(21)	(11)	(9)
	117	129	10	16	22	34	18	25	10	9
	116	115	8	20	30	34	23	29	9	11
1.22	(117)	(122)	(9)	(18)	(26)	(34)	(21)	(27)	(10)	(10)
	111	123	10	11	28	40	13	30	7	11
	137	100	9	17	34	37	23	25	13	11
4.88	(124)	(112)	(10)	(14)	(31)	(39)	(18)	(28)	(10)	(11)
	158	124	17	15	26	31	15	29	14	6
	163	119	17	11	16	36	21	21	8	6
19.5	(161)	(122)	(17)	(13)	(21)	(34)	(18)	(25)	(11)	(6)
	238	167	13	18	24	38	21	28	5	16
	247	198	5	14	23	30	18	33	6	13
78.1	(243)	(183)	(9)	(16)	(24)	(34)	(20)	(31)	(6)	(15)
	546	335	9	14	21	43	31	31	7	18
	551	335	22	17	23	36	30	26	8	8
313	(549)	(335)	(16)	(16)	(22)	(40)	(31)	(29)	(8)	(13)
	529*	573*	6*	8*	20*	21*	18*	18*	6*	6*
	493*	477*	5*	15*	15*	17*	14*	14*	2*	13*
1250	(511*)	(525*)	(6*)	(12*)	(18*)	(19*)	(16*)	(16*)	(4*)	(10*)
	0*	0*	0*	0*	11*	9*	0*	0*	0*	0*
	0*	0*	0*	0*	6*	11*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(9*)	(10*)	(0*)	(0*)	(0*)	(0*)
	+	+	-	-	-	-	-	-	-	-
	1350	681								
	AF2	2AA	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(793)	(1073)	(273)	(278)	(275)	(825)	(484)	(332)	(497)	(180)

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+
DMSO	(128)	(137)	(20)	(20)	(28)	(29)	(21)	(30)	(9)	(8)
	119	130								
	143	151								
19.5	(131)	(141)								
	218	146	20	30	14	26	15	29	11	7
	211	165	9	28	17	28	26	17	7	15
39.1	(215)	(156)	(15)	(29)	(16)	(27)	(21)	(23)	(9)	(11)
	233	178	11	22	28	26	26	31	6	17
	300	162	21	16	13	24	15	28	8	10
78.1	(267)	(170)	(16)	(19)	(21)	(25)	(21)	(30)	(7)	(14)
	273	245	20	18	22	32	25	29	9	5
	396	265	21	11	15	21	25	32	13	10
156	(385)	(255)	(21)	(15)	(19)	(27)	(25)	(31)	(11)	(8)
	608*	307	9	21	28	18	24	31	9	11
	531*	350	11	18	23	34	26	29	7	14
313	(570*)	(329)	(10)	(20)	(26)	(26)	(25)	(30)	(8)	(13)
	640*	425*	10*	17	21	26	26*	29	10*	8
	581*	417*	7*	18	16	26	30*	31	5*	10
625	(611*)	(421*)	(9*)	(18)	(19)	(26)	(28*)	(30)	(8*)	(9)
	534*	487*	8*	11*	21*	11*	21*	21*	6*	10*
	544*	441*	6*	6*	20*	16*	15*	13*	7*	10*
1250	(539*)	(464*)	(7*)	(9*)	(21*)	(14*)	(18*)	(17*)	(7*)	(10*)
			6*	11*	20*	10*	15*	14*	1*	3*
			6*	9*	14*	10*	10*	20*	5*	5*
2500			(6*)	(10*)	(17*)	(10*)	(13*)	(17*)	(3*)	(4*)
Judgement	+	+	-	-	-	-	-	-	-	-
Specific Mutagenicity	1780	613								
Positive	AF2	2AA	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA
Control	(736)	(1176)	(267)	(263)	(285)	(761)	(456)	(344)	(368)	(170)