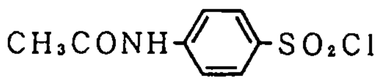
p-Acetylaminobenzenesulfonyl chloride (p-アセチルアミノベンゼンスルホニルクロリド)

Chemical Name: p-Acetylaminobenzenesulfonyl chloride
Synonym: Benzensulfonyl chloride, 4-(acetylamino)-
Molecular weight: 233.68
Melting point: 149℃
Boiling point:

Chemical Structure



CAS No : 121-60-8
MITI No : (3)-1988
Source of Substance:Tokyo Kasei Kogyo Co.Ltd
Lot.No. : GA01
Purity: ≧ 97 %
Vehicle:Acetone

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: not yet cited

Experimental Data

Number of Revertants/plate

Con. μg/plate	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
Acetone	(105)	(120)	(14)	(15)	(34)	(42)	(23)	(30)	(10)	(10)
	101	142	7	13	32	40	21	29	6	13
	122	129	11	20	38	32	33	29	7	10
0.0763	(112)	(136)	(9)	(17)	(35)	(36)	(27)	(29)	(7)	(12)
	107	128	17	13	28	34	13	29	6	6
	116	134	11	14	32	33	22	32	6	9
0.305	(112)	(131)	(14)	(14)	(30)	(34)	(18)	(31)	(6)	(8)
	106	108	8	10	18	39	23	22	5	9
	114	113	11	14	31	43	21	25	9	6
1.22	(110)	(111)	(10)	(12)	(25)	(41)	(22)	(24)	(7)	(8)
	97	111	10	15	20	46	29	41	6	7
	105	117	16	8	26	41	23	37	13	7
4.88	(101)	(114)	(13)	(12)	(23)	(44)	(26)	(39)	(10)	(7)
	106	105	13	14	26	41	16	26	6	9
	100	107	8	15	33	36	17	44	9	14
19.5	(103)	(106)	(11)	(15)	(30)	(39)	(17)	(35)	(8)	(12)
	85*	112	10*	13	24*	39	10*	28	7*	9
	81*	136	10*	8	33*	33	18*	24	7*	8
78.1	(83*)	(124)	(10*)	(11)	(29*)	(36)	(14*)	(26)	(7*)	(9)
	56*	39*	8*	6*	18*	39*	5*	9*	8*	9
	81*	31*	5*	5*	10*	38*	11*	15*	3*	6*
313	(69*)	(35*)	(7*)	(6*)	(14*)	(39*)	(8*)	(12*)	(6*)	(8*)
	0*	26*	0*	5*	0*	17*	0*	13*	0*	6*
	0*	55*	0*	9*	0*	20*	0*	10*	0*	3*
1250	(0*)	(41*)	(0*)	(7*)	(0*)	(19*)	(0*)	(12*)	(0*)	(5*)
	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 Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(699)	(1057)	(277)	(251)	(198)	(992)	(547)	(340)	(439)	(140)

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+		
Acetone	(158)	(166)	(15)	(14)	(32)	(40)	(19)	(29)	(13)	(17)		
	148		16		25		18		18			
	176		10		40		17		15			
1.22	(162)		(13)		(33)		(18)		(17)			
	178		14		22		20		7			
	159		15		28		22		13			
2.44	(169)		(15)		(25)		(21)		(10)			
	142	172	17	15	40	40	20	33	8	18		
	163	174	9	17	26	39	22	28	14	16		
4.88	(153)	(173)	(13)	(16)	(33)	(40)	(21)	(31)	(11)	(17)		
	129	155	16	13	36	30	20	22	14	23		
	152	188	18	10	31	30	26	28	8	15		
9.77	(141)	(172)	(17)	(12)	(34)	(30)	(23)	(25)	(11)	(19)		
	177	158	15	11	28	33	20	32	10	17		
	191	158	17	8	33	43	18	38	15	17		
19.5	(184)	(158)	(16)	(10)	(31)	(38)	(19)	(35)	(13)	(17)		
	159*	148	22	11	36	30	23*	25	13*	9		
	174*	180	23	17	28	40	24*	21	13*	15		
39.1	(167*)	(164)	(23)	(14)	(32)	(35)	(24*)	(23)	(13*)	(12)		
	155*	166	10*	16	33*	30	20*	30	13*	17		
	159*	177	9*	9	26*	29	13*	29	13*	10		
78.1	(157*)	(172)	(10*)	(13)	(30*)	(30)	(17*)	(30)	(13*)	(14)		
	77*	160*	8*	20*	24*	38	26*	21*	7*	21*		
	115*	190*	10*	18*	25*	38	9*	25*	8*	15*		
156	(96*)	(175*)	(9*)	(19*)	(25*)	(38)	(18*)	(23*)	(8*)	(18*)		

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	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+
			107*		11*		38*		15*		6*
			79*		8*		30*		16*		10*
	313		(93*)		(10*)		(34*)		(16*)		(8*)
			93*		9*		6*		13*		5*
			86*		11*		20*		24*		7*
	625		(90*)		(10*)		(13*)		(19*)		(6*)
Judgement		—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity											
Positive Control		AF2 (1053)	2AA (1392)	NaN_3 (394)	2AA (254)	AF2 (307)	2AA (1097)	AF2 (512)	2AA (396)	9AA (645)	2AA (228)

Con. μg/plate	Experimental Data: Number of Revertants/plate, Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
Acetone	(250)	(314)	(282)	(365)	(190)	(231)
	271	291	288	341	183	230
	248	293	258	343	193	206
0.0763	(260)	(292)	(273)	(342)	(188)	(218)
	234	310	326	335	183	211
	220	300	229	376	201	259
0.305	(227)	(305)	(278)	(356)	(192)	(235)
	223	306	252	372	177	233
	253	317	256	341	190	205
1.22	(238)	(312)	(254)	(357)	(184)	(219)
	225	287	287	342	169	219
	265	304	286	329	151	204
4.88	(245)	(296)	(287)	(336)	(160)	(212)
	258	284	256	337	146	192
	226	320	258	344	165	222
19.5	(242)	(302)	(257)	(341)	(156)	(207)
	204	249	309*	332	171	240
	211	288	310*	342	194	252
78.1	(208)	(269)	(310*)	(337)	(183)	(246)
	104*	173*	288*	311*	101*	238*
	124*	167*	301*	319*	115*	208*
313	(114*)	(170*)	(295*)	(315*)	(108*)	(223*)
	99*	112*	295*	387*	97*	142*
	87*	99*	280*	318*	92*	117*
1250	(93*)	(106*)	(288*)	(303*)	(95*)	(130*)
	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	−	−	−	−	−	−
Specific Mutagenicity						
Positive Control	BLM	2AA	PA	2AA	AF2	2AA
	(882)	(1784)	(1574)	(1015)	(2410)	(1058)

Con. μg/plate	Experimental Data: Number of Revertants/plate, Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
Acetone	(245)	(288)	(280)	(376)	(192)	(249)
			309			
			279			
2.44			(394)			
	253	320	294	391	180	238
	241	318	293	396	173	234
4.88	(247)	(319)	(294)	(394)	(177)	(236)
	234	314	299	362	165	238
	246	307	279	395	176	249
9.77	(240)	(311)	(289)	(379)	(171)	(244)
	206	285	271	378	117	248
	242	284	260	360	151	278
19.5	(224)	(285)	(266)	(369)	(134)	(263)
	222	291	243	414	151	246
	228	295	229	374	130	260
39.1	(225)	(293)	(236)	(394)	(141)	(253)
	137*	292	246*	406	167	223
	158*	295	236*	377	166	221
78.1	(148*)	(294)	(241*)	(392)	(167)	(222)
	76*	225*	267*	334	135*	260
	67*	238*	185*	342	146*	232
156	(72*)	(232*)	(226*)	(338)	(141*)	(246)
	55*	68*		213*	81*	156*
	96*	77*		230*	60*	174*
313	(76*)	(73*)		(222*)	(71*)	(165*)
Judgement	—	—	—	—	—	—
Specific Mutagenicity Positive Control	BLM	2AA	PA	2AA	AF2	2AA
	(882)	(2539)	(2454)	(1374)	(3331)	(1290)