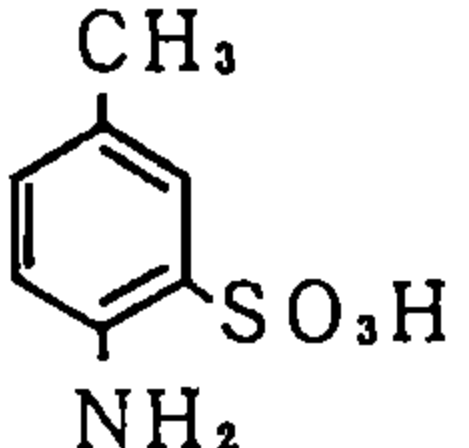


2-Amino-5-methylbenzene sulfonic acid (2-アミノ-5-メチルベンゼンスルホン酸(4B酸))

Experimental Data

Chemical Name: 2-Amino-5-methylbenzene sulfonic acid	Synonym: Benzenesulfonic acid, 2-amino-5-methyl-6-Amino-m-toluene sulfonic acid	Molecular weight: 187.22	Melting point:	Boiling point:	Chemical Structure	Con. $\mu\text{g}/\text{plate}$	Number of Revertants/plate									
							Base-substitution						Frame-shift			
							TA100		TA1535		WP2uvrA		TA98		TA1537	
							S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
						DMSO	(124)	(114)	(15)	(11)	(32)	(42)	(23)	(33)	(10)	(10)
						0.0763	111	126	13	16	37	31	21	33	13	8
							107	109	14	11	25	38	22	28	5	13
						0.305	(109)	(118)	(14)	(14)	(31)	(35)	(22)	(31)	(9)	(11)
							123	105	13	10	34	36	25	41	8	10
							134	108	6	13	29	33	31	29	8	10
						0.305	(129)	(107)	(10)	(12)	(32)	(35)	(28)	(35)	(8)	(10)
							101	113	15	10	37	22	31	47	8	6
							98	111	7	6	38	46	28	31	6	13
						1.22	(100)	(112)	(11)	(8)	(38)	(34)	(30)	(39)	(7)	(10)
							133	108	18	7	31	32	36	31	8	11
							117	86	16	9	31	23	24	26	7	11
						4.88	(125)	(97)	(17)	(8)	(31)	(28)	(30)	(29)	(8)	(11)
							108	104	18	10	36	26	36	29	7	8
							104	111	11	11	29	53	24	31	8	9
						19.5	(106)	(108)	(15)	(11)	(33)	(40)	(30)	(30)	(8)	(9)
							113	121	10	9	30	44	24	33	8	10
							117	101	11	15	34	37	37	25	6	11
						78.1	(115)	(111)	(11)	(12)	(32)	(41)	(31)	(29)	(7)	(11)
							138	123	15	18	26	38	20	38	8	10
							112	115	13	9	48	33	28	34	11	14
						313	(125)	(119)	(14)	(14)	(37)	(36)	(24)	(36)	(10)	(12)
							119	128	7	14	28	39	26	28	11	8
							104	109	20	13	33	43	29	41	5	6
						1250	(112)	(119)	(14)	(14)	(31)	(41)	(28)	(35)	(8)	(7)
							109	126	11	10	34	26	28	51	10	10
							117	109	11	10	30	41	28	36	14	16
						5000	(113)	(118)	(11)	(10)	(32)	(34)	(28)	(44)	(12)	(13)
							-	-	-	-	-	-	-	-	-	-
						Judgement										
						Specific Mutagenicity										
						Positive	AF2	2AA	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA
						Control	(693)	(1068)	(271)	(241)	(196)	(1003)	(541)	(341)	(444)	(138)

Experimental Data

Con. μ g/ 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	(154)	(159)	(11)	(13)	(25)	(36)	(23)	(28)	(11)	(17)
	160	178	10	7	31	34	14	22	9	13
	153	170	13	10	25	30	24	23	11	18
156	(157)	(174)	(12)	(9)	(28)	(32)	(19)	(23)	(10)	(16)
	172	170	8	11	25	23	20	33	10	15
	150	180	7	11	21	39	25	32	8	6
313	(161)	(175)	(8)	(11)	(23)	(31)	(23)	(33)	(9)	(11)
	191	177	14	10	21	29	28	22	10	15
	167	155	14	10	24	33	18	32	10	23
625	(179)	(166)	(14)	(10)	(23)	(31)	(23)	(27)	(10)	(19)
	158	139	15	8	24	29	16	29	10	18
	164	153	11	11	33	31	17	20	9	11
1250	(161)	(146)	(13)	(10)	(29)	(30)	(17)	(25)	(10)	(15)
	179	160	10	17	26	39	16	38	21	20
	166	156	7	11	33	25	16	23	14	21
2500	(173)	(158)	(9)	(14)	(30)	(32)	(16)	(31)	(18)	(21)
	165	160	10	11	29	36	22	31	8	14
	153	166	10	9	26	29	20	28	10	8
5000	(159)	(163)	(10)	(10)	(28)	(33)	(21)	(30)	(9)	(11)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive	AF2	2AA	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA
Control	(1045)	(1466)	(394)	(260)	(301)	(1092)	(516)	(389)	(636)	(226)

Experimental Data

Con. μ g/ plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
<u>DMSO</u>	(255)	(314)	(281)	(362)	(173)	(234)
	240	323	261	340	164	230
	238	316	290	400	156	256
<u>0.0763</u>	(239)	(320)	(276)	(370)	(160)	(243)
	259	329	301	399	163	219
	263	340	304	393	136	249
<u>0.305</u>	(261)	(335)	(303)	(396)	(150)	(234)
	254	311	301	362	171	240
	242	335	309	349	191	241
<u>1.22</u>	(248)	(323)	(305)	(356)	(181)	(241)
	260	328	266	370	167	233
	247	326	303	393	164	247
<u>4.88</u>	(254)	(327)	(285)	(382)	(166)	(240)
	241	331	248	343	192	255
	254	303	305	356	158	265
<u>19.5</u>	(248)	(317)	(277)	(350)	(175)	(260)
	248	348	285	411	176	252
	261	319	278	359	158	248
<u>78.1</u>	(255)	(334)	(282)	(385)	(167)	(250)
	255	301	295	411	149	267
	234	324	293	390	164	258
<u>313</u>	(245)	(313)	(294)	(401)	(157)	(263)
	242	360	281	408	179	241
	249	325	279	399	172	209
<u>1250</u>	(246)	(343)	(280)	(404)	(176)	(225)
	234	336	275	385	172	240
	252	331	272	372	145	242
<u>5000</u>	(243)	(334)	(274)	(379)	(159)	(241)
Judgement	—	—	—	—	—	—
Specific Mutagenicity						
Positive	BLM	2AA	PA	2AA	AF2	2AA
Control	(894)	(1795)	(1600)	(1016)	(2427)	(1064)

		Experimental Data					
Con. μ g/ plate	Number of Revertants/plate						
	Base-substitution						
	TA102		TA104		WP2uvrA/pKM101		
	S9-	S9+	S9-	S9+	S9-	S9+	
<u>DMSO</u>	(242)	(315)	(278)	(371)	(176)	(248)	
	273	303	305	389	180	241	
	262	320	292	373	162	215	
<u>156</u>	(268)	(312)	(299)	(381)	(171)	(228)	
	242	322	286	401	173	245	
	228	265	259	377	184	216	
<u>313</u>	(235)	(294)	(273)	(389)	(179)	(231)	
	248	319	293	358	170	241	
	227	324	245	354	177	255	
<u>625</u>	(238)	(322)	(269)	(356)	(174)	(248)	
	234	297	268	366	163	241	
	242	318	292	411	158	259	
<u>1250</u>	(238)	(308)	(280)	(389)	(161)	(250)	
	240	297	278	406	179	214	
	233	300	307	441	183	222	
<u>2500</u>	(237)	(299)	(293)	(424)	(181)	(218)	
	242	334	293	393	180	223	
	201	341	262	433	144	255	
<u>5000</u>	(222)	(338)	(278)	(413)	(162)	(239)	
	-	-	-	-	-	-	
Judgement							
Specific Mutagenicity							
Positive	BLM	2AA	PA	2AA	AF2	2AA	
Control	(878)	(2504)	(2454)	(1383)	(3317)	(1281)	