

2-Bromopropionic acid (2-ブロモプロピオン酸)

Chemical Name:	2-Bromopropionic acid
Synonym	2-Bromopropanoic acid
Molecular weight:	152.98
Melting point:	25.7 °C
Boiling point:	203.5°C (10mmHg)
Chemical Structure	$\begin{array}{c} \text{Br} \\   \\ \text{CH}_3\text{CHCOOH} \end{array}$
CAS No:	598-72-1
MITI No:	(9)-1167
Source of Substance:	Wako Pure Chem. Ind., Ltd.
Lot.No.:	CDR2608
Purity:	
Vehicle:	DMSO

Experimental Data

Con. μg/ plate	Number of Revertants/plate												
	Base-substitution						Frame-shift						
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538		
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	
DMSO	(126)	(125)	(21)	(12)	(41)	(51)	(18)	(22)	(5)	(10)	(22)	(32)	
	142	144	21	9	44	51	18	24	6	12	25	28	
	124	141	20	10	46	62	13	23	6	7	23	32	
20	(133)	(143)	(21)	(10)	(45)	(57)	(16)	(24)	(6)	(10)	(24)	(30)	
	131	159	18	13	53	52	18	24	9	9	22	30	
	156	134	27	10	45	61	14	21	7	9	23	34	
50	(144)	(147)	(23)	(12)	(49)	(57)	(16)	(23)	(8)	(9)	(23)	(32)	
	175	151	16	14	51	57	20	26	5	10	23	39	
	161	143	28	14	43	59	14	30	5	11	17	26	
100	(168)	(147)	(22)	(14)	(47)	(58)	(17)	(28)	(5)	(11)	(20)	(33)	
	169	155	23	13	47	51	16	28	2	9	16	38	
	162	158	24	10	49	57	15	28	5	8	19	29	
200	(166)	(157)	(24)	(12)	(48)	(54)	(16)	(28)	(4)	(9)	(18)	(34)	
	164	162	26	14	45	68	25	26	10	13	18	24	
	150	161	35	22	49	53	27	22	4	10	17	32	
500	(157)	(162)	(31)	(18)	(47)	(61)	(26)	(24)	(7)	(12)	(18)	(28)	
	177	171	29	34	44	56	36	33	7	9	23	34	
	184	152	31	28	36	53	19	27	8	13	20	37	
1000	(181)	(161)	(30)	(31)	(40)	(55)	(28)	(30)	(8)	(11)	(22)	(36)	
	0*	178	22	43	48	71	23	30	5	12	10	33	
	0*	184	24	33	41	68	12	28	4	11	5*	36	
2000	(0*)	(181)	(23)	(38)	(45)	(70)	(18)	(29)	(5)	(12)	(8*)	(35)	
	0*	0*	0*	0*	42	82	0*	0*	0*	5*	0*	30	
	0*	0*	0*	0*	53	75	0*	0*	0*	3*	0*	24	
5000	(0*)	(0*)	(0*)	(0*)	(48)	(79)	(0*)	(0*)	(0*)	(4*)	(0*)	(27)	
Judgement	-	-	-	+	-	-	-	-	-	-	-	-	
Specific Mutagenicity	19.0												
Positive Control	AF2	2AA	0.5	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
Control	(450)	(577)	(223)	(246)	(229)	(725)	(350)	(578)	(804)	(284)	(442)	(543)	