Adipic acid (アジピン酸)

Chemical Name: Adipic acid
Synonym 1,4-Butanedicarboxylic acid
Hexanedioic acid
Molecular weight: 146.14
Melting point: 153℃
Boiling point: 337℃

Chemical Structure

$HOOC(CH_2)_4COOH$

CAS No: 124-04-9
MITI No: (2)-858

Source of Substance: Tokyo Kasei Kogyo Co. Ltd
Lot. No. : AL01
Purity: Guaranteed reagent
Vehicle: DMSO

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		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(166)	(187)	(31)	(12)	(31)	(30)	(21)	(59)	(9)	(16)	(15)	(31)
	144	192	31	14	25	35	21	61	13	14	21	36
	200	161	30	14	28	43	24	48	9	4	27	30
100	(172)	(177)	(31)	(14)	(27)	(39)	(23)	(55)	(11)	(9)	(24)	(33)
	146	182	24	16	16	39	21	52	12	11	21	38
	148	183	16	19	26	42	19	50	9	13	26	23
200	(147)	(183)	(20)	(18)	(21)	(41)	(20)	(51)	(11)	(12)	(24)	(31)
	166	152	40	11	24	20	14	38	8	6	18	27
	156	136	35	12	28	38	23	62	7	8	10	25
500	(161)	(144)	(38)	(12)	(26)	(29)	(19)	(50)	(8)	(7)	(14)	(26)
	166	158	38	7	19	30	21	42	7	8	14	29
	158	168	34	8	16	25	23	52	6	13	11	33
1000	(162)	(163)	(36)	(8)	(18)	(28)	(22)	(47)	(7)	(11)	(13)	(31)
	147	166	34	8	31	31	28	60	5	8	11	32
	180	164	38	8	14	41	22	52	7	8	16	30
2000	(164)	(165)	(36)	(8)	(23)	(36)	(25)	(56)	(6)	(8)	(14)	(31)
	183	185	38	13	27	22	28	38	11	11*	26	22*
	178	177	23	21	26	33	23	48	5	6*	21	24*
5000	(181)	(181)	(31)	(17)	(26)	(28)	(26)	(43)	(8)	(9*)	(24)	(23*)
	0*	140*	0*	0*	21*	48*	18	33*	0*	0*	0*	0*
	0*	142*	0*	0*	21*	35*	22	40*	0*	0*	0*	0*
10000	(0*)	(141*)	(0*)	(0*)	(21*)	(42*)	(20)	(37*)	(0*)	(0*)	(0*)	(0*)
Judgement	—	—	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity Positive Control	AF2	2AA 0.5	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA	4NQO	2AA
	(756)	(705)	(354)	(190)	(274)	(1436)	(558)	(508)	(126)	(397)	(431)	(521)