

Chemical Name	: <u>12-Aminododecanoic acid</u>
Synonym	: <u>12-Aminolauric acid</u>
Molecular Weight	: 215.34
Melting Point	: 185-187°C [Aldrich]
Boiling Point	: 355°C
Flashing Point	: -
Molecular Formula	: C ₁₂ H ₂₅ NO ₂
Chemical Structure	NH ₂ (CH ₂) ₁₁ COOH
CAS No.	: 693-57-2
MITI No.	: (2)-3121
ML No.	: 2-(4)-56
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GC01
Purity	: >98%
Vehicle	: DMSO

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(126)	(146)	(7)	(8)	(54)	(75)	(15)	(24)	(6)	(10)
1 .22	152	159	6	5	51	74	15	21	3	10
	121	157	7	8	48	74	9	25	5	5
4 .88	(137)	(158)	(7)	(7)	(50)	(74)	(12)	(23)	(4)	(8)
	126	131	6	10	39	77	8	22	5	10
19 .5	108	131	8	15	45	70	13	22	5	8
	(117)	(131)	(7)	(13)	(42)	(74)	(11)	(22)	(5)	(9)
78 .1	136	144	6	10	51	78	21	25	5	9
	133	122	6	13	57	69	8	28	2	10
313	(135)	(133)	(6)	(12)	(54)	(74)	(15)	(27)	(4)	(10)
	130	148	5	14	49	86	21	25	6	10
1250	143	160	6	10	41	66	8	25	5	8
	(137)	(154)	(6)	(12)	(45)	(76)	(15)	(25)	(6)	(9)
5000	134	165	6	7	38	96	16	26	5	6
	129	135	5	9	44	83	15	16	3	5
Judgement	(132)	(150)	(6)	(8)	(41)	(90)	(16)	(21)	(4)	(6)
	131	139	11	9	51	79	10	24	6	9
Specific Mutagenicity	119	139	9	6	48	53	11	25	6	9
	(125)	(139)	(10)	(8)	(50)	(66)	(11)	(25)	(6)	(9)
Positive Control	163	156	9	14	51	74	17	28	9	11
	108	146	15	14	46	55	15	11	6	13
	(136)	(151)	(12)	(14)	(49)	(65)	(16)	(20)	(8)	(12)
	-	-	-	-	-	-	-	-	-	-
	AF-2	2-AA	NaN ₃	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA
	(736)	(1428)	(442)	(361)	(1725)	(1147)	(589)	(469)	(688)	(235)

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Experimental Data-2

(B9704-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(146)	(130)	(7)	(8)	(44)	(61)	(14)	(22)	(6)	(11)
	139	135	5	10	41	56	20	26	7	10
313	(142)	(143)	(10)	(10)	(49)	(58)	(19)	(28)	(6)	(7)
	137	139	9	7	43	84	23	24	3	9
625	(125)	(149)	(9)	(9)	(44)	(77)	(18)	(25)	(3)	(8)
	131	134	11	14	30	90	17	11	7	13
1250	(116)	(140)	(11)	(13)	(37)	(87)	(16)	(16)	(7)	(13)
	148	153	9	10	48	72	18	14	8	14
2500	(135)	(147)	(9)	(10)	(41)	(70)	(17)	(20)	(6)	(11)
	121	141	8	10	33	68	15	26	3	8
5000	(127)	(156)	(7)	(9)	(42)	(66)	(16)	(23)	(5)	(13)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (741)	2-AA (1351)	NaN ₃ (489)	2-AA (369)	AF-2 (1219)	2-AA (1034)	AF-2 (546)	2-AA (463)	9-AA (661)	2-AA (201)