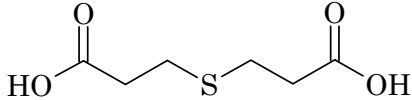


3,3'-Sulfanediyldipropionic acid (3,3'-スルファンジ'イルジ'プロパン酸)

Chemical Name	; 3,3'-Sulfanediyldipropionic acid
Synonym	; 3,3'-Thiodipropionic acid 3,3'-Thiobis(propionic acid) Thiodihydracrylic acid Bis(2-carboxyethyl)sulfide 3,3'-チオジ'プロピオン酸
Molecular Weight	; 178.21
Melting Point	; 134°C [Merck]
Boiling Point	; -
Flashing Point	; -
Molecular Formular	; C ₆ H ₁₀ O ₄ S
Chemical Structure;	
	
CAS No.	; 111-17-1
MITI No.	; (2)-1397, (2)-920
ML No.	; -
Specified Chemical Substances;	-
Source of Substance;	Tokyo Kasei Kogyo Co., Ltd.
Lot No.	; GJ01
Purity	; 99.4%
Vehicle	; DMSO

Mutagenicity in Bacterial Test; Negative

IARC Evaluation ; Not yet cited

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(107)	(110)	(11)	(10)	(58)	(95)	(17)	(22)	(8)	(11)
	124	129	8	7	45	92	11	18	6	7
	115	131	10	5	72	93	15	22	6	14
1 .22	(120)	(130)	(9)	(6)	(59)	(93)	(13)	(20)	(6)	(11)
	123	99	14	9	71	91	13	21	2	6
	116	115	7	9	53	113	24	18	5	7
4 .88	(120)	(107)	(11)	(9)	(62)	(102)	(19)	(20)	(4)	(7)
	93	121	9	14	41	86	11	15	3	8
	112	112	8	8	41	94	15	16	2	5
19 .5	(103)	(117)	(9)	(11)	(41)	(90)	(13)	(16)	(3)	(7)
	113	133	17	8	56	106	9	21	2	8
	124	119	11	5	38	99	11	16	6	6
78 .1	(119)	(126)	(14)	(7)	(47)	(103)	(10)	(19)	(4)	(7)
	136	116	5	11	62	85	16	20	7	2
	101	128	11	14	51	76	21	17	5	5
313	(119)	(122)	(8)	(13)	(57)	(81)	(19)	(19)	(6)	(4)
	115	122	14	10	66	81	17	22	2	10
	130	122	7	13	71	115	17	17	8	8
1250	(123)	(122)	(11)	(12)	(69)	(98)	(17)	(20)	(5)	(9)
	120	124	11	9	78	78	11	17	5	8
	112	104	7	10	53	77	25	21	2	10
5000	(116)	(114)	(9)	(10)	(66)	(78)	(18)	(19)	(4)	(9)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (674)	2-AA (1041)	NaN ₃ (266)	2-AA (211)	AF-2 (1225)	2-AA (779)	AF-2 (372)	2-AA (357)	9-AA (384)	2-AA (192)

Experimental Data-2

(B0401-2/2)

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(104)	(111)	(8)	(9)	(57)	(86)	(14)	(23)	(7)	(7)
	112	96	11	11	62	74	17	25	10	8
	81	89	14	11	76	84	13	20	10	8
313	(97)	(93)	(13)	(11)	(69)	(79)	(15)	(23)	(10)	(8)
	93	135	8	8	56	82	13	13	9	10
	96	113	8	5	68	91	16	15	9	8
625	(95)	(124)	(8)	(7)	(62)	(87)	(15)	(14)	(9)	(9)
	89	113	6	16	53	69	6	17	7	9
	107	107	9	6	56	75	16	30	9	7
1250	(98)	(110)	(8)	(11)	(55)	(72)	(11)	(24)	(8)	(8)
	94	117	11	7	70	104	20	28	8	7
	107	107	8	5	62	84	13	23	2	8
2500	(101)	(112)	(10)	(6)	(66)	(94)	(17)	(26)	(5)	(8)
	101	116	14	8	60	84	21	23	5	9
	97	116	8	8	86	74	20	17	8	8
5000	(99)	(116)	(11)	(8)	(73)	(79)	(21)	(20)	(7)	(9)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (726)	2-AA (971)	NaN ₃ (304)	2-AA (230)	AF-2 (990)	2-AA (719)	AF-2 (435)	2-AA (380)	9-AA (386)	2-AA (135)