

Dinitrosopentamethylenetetramine

(ジニトロペンタメチレンテトラミン)

Chemical Name:	Dinitrosopentamethylene-tetramine
Synonym	3,7-Dinitroso-1,3,5,7-tetra-azabicyclo [3.3.1] nonane
Molecular weight:	186.17
Melting point:	°C
Boiling point:	°C
Chemical Structure	
CAS No:	101-25-7
MITI No:	(5)-1140, (5)-3908
Source of Substance:	Tokyo Kasei Kogyo Co. Ltd
Lot. No.:	AI01
Purity:	extra pure reagent
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	(179)	(199)	(36)	(12)	(24)	(26)	(26)	(39)	(16)	(24)	(13)	(18)
	236	192	25	16	21	26	25	29	13	19	14	23
	167	173	21	6	23	16	25	20	16	31	11	24
50	(202)	(183)	(23)	(11)	(22)	(21)	(25)	(25)	(15)	(22)	(13)	(24)
	188	228	13	10	14	18	11	25	17	23	8	14
	170	215	19	7	21	25	16	36	14	21	8	13
100	(179)	(222)	(16)	(9)	(18)	(22)	(14)	(31)	(16)	(22)	(8)	(14)
	168	264	20	9	23	20	15	33	27	16	7	21
	161	221	18	12	26	27	19	29	21	22	9	15
200	(165)	(243)	(19)	(11)	(25)	(24)	(17)	(31)	(24)	(19)	(8)	(18)
	247	474	22	20	39	36	28	34	12	21	8	24
	279	429	9	18	21	43	16	33	14	18	13	20
500	(263)	(452)	(16)	(19)	(30)	(40)	(22)	(34)	(13)	(20)	(11)	(22)
	421	848	19	18	35	48	25	48	14	8	6	8
	417	801	7	11	42	53	35	73	10	15	9	18
1000	(419)	(825)	(13)	(15)	(39)	(51)	(30)	(61)	(12)	(12)	(8)	(13)
	0*	668	0*	8*	25	55	0*	53*	0*	3*	0*	4*
	0*	508	0*	6*	38	59	0*	71*	0*	3*	0*	7*
2000	(0*)	(588)	(0*)	(7*)	(32)	(57)	(0*)	(62*)	(0*)	(3*)	(0*)	(6*)
	0*	0*	0*	0*	0*	21*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	15*	0*	0*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(18*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
						0*						
						0*						
10000	()	()	()	()	()	(0*)	()	()	()	()	()	()
Judgement	+	+	-	-	-	+	-	-	-	-	-	-
Specific Mutagenicity	240	626				15.5						
Positive	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
Control	(1068)	(501)	(269)	(203)	(375)	(646)	(277)	(288)	(234)	(305)	(297)	(252)