1,2-Diethylhydrazine･dihydrochloride (1,2-ジエチルヒドラジン･2塩酸)

Chemical Name: 1,2-Diethylhydrazine ･dihydrochloride
Synonym
Molecular weight: 161.08
Melting point: 169℃
Boiling point:

Chemical Structure

$C_2H_5NHNHC_2H_5 \cdot 2HC\ell$

CAS No : 7699-31-2

Source of Substance : Aldrich
Lot.No. : BW02907KT
Purity :
Vehicle : H_2O

Mutagenicity
in Bacterial Test : Negative

IARC Evaluation : not yet cited

Experimental Data

Con. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
H_2O	(140)	(131)	(14)	(20)	(17)	(18)	(21)	(23)	(8)	(13)
	120	158	16	26	16	15	16	18	8	9
	155	126	18	15	6	22	18	18	11	7
0.153	(138)	(142)	(17)	(21)	(11)	(19)	(17)	(18)	(10)	(8)
	142	129	17	11	17	17	16	17	14	8
	133	116	8	22	16	24	16	21	14	11
0.610	(138)	(123)	(13)	(17)	(17)	(21)	(16)	(19)	(14)	(10)
	134	129	11	17	20	24	16	14	7	7
	130	122	8	16	14	13	20	22	8	13
2.44	(132)	(126)	(10)	(17)	(17)	(19)	(18)	(18)	(8)	(10)
	136	131	16	18	9	18	9	21	5	10
	144	155	11	15	14	10	20	20	11	7
9.77	(140)	(143)	(14)	(17)	(12)	(14)	(15)	(21)	(8)	(9)
	133	139	20	18	21	9	11	25	20	9
	136	139	14	24	20	14	10	18	8	18
39.1	(135)	(139)	(17)	(21)	(21)	(12)	(11)	(22)	(14)	(14)
	144	142	18	15	16	11	23	20	8	14
	167	142	22	22	22	14	16	20	10	13
156	(156)	(142)	(20)	(19)	(19)	(13)	(20)	(20)	(9)	(14)
	166	137	7	11	13	22	14	17	8	15
	144	128	14	17	10	22	16	30	11	10
625	(155)	(133)	(11)	(14)	(12)	(22)	(15)	(24)	(10)	(13)
	129	112	21	13	17	23	16	17	13	7
	143	158	16	9	18	21	23	45	14	7
2500	(136)	(135)	(19)	(11)	(18)	(22)	(20)	(31)	(14)	(7)
	134	135*	18	15*	14	24*	0*	0*	2*	7*
	165	119*	13	11*	29	29*	0*	0*	16*	10*
10000	(150)	(127*)	(16)	(13*)	(22)	(27*)	(0*)	(0*)	(9*)	(9*)
Judgement	−	−	−	−	−	−	−	−	−	−
Specific Mutagenicity Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(812)	(1208)	(160)	(221)	(237)	(608)	(466)	(347)	(206)	(208)

Con. μg/plate	Experimental Data: Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
H_2O	(124)	(124)	(12)	(15)	(24)	(35)	(20)	(26)	(14)	(17)
	141	101	7	11	25	30	20	29	8	13
	155	137	7	11	22	49	17	28	20	14
156	(148)	(119)	(7)	(11)	(24)	(40)	(19)	(29)	(14)	(14)
	94	141	7	14	26	33	25	26	17	16
	114	141	13	6	18	28	18	25	15	13
313	(104)	(141)	(10)	(10)	(22)	(31)	(22)	(26)	(16)	(15)
	106	131	8	22	20	36	21	26	18	26
	121	116	16	13	24	20	16	30	18	18
625	(114)	(124)	(12)	(18)	(22)	(28)	(19)	(28)	(18)	(22)
	135	123	10	11	20	28	13	33	21	15
	165	128	6	17	26	30	17	21	14	13
1250	(150)	(126)	(8)	(14)	(23)	(29)	(15)	(27)	(18)	(14)
	134	120	10	15	30	32	21	23	18	18
	124	101	11	14	25	34	26	22	15	20
2500	(129)	(111)	(11)	(15)	(28)	(33)	(24)	(23)	(17)	(19)
	124	109	17	13	29	26	30*	31*	18	9
	117	115	8	11	40	36	25*	29*	8	14
5000	(121)	(112)	(13)	(12)	(35)	(31)	(28*)	(30*)	(13)	(12)
	137	116*	20	14*	29	32*	16*	0*	21*	15*
	139	122*	11	11*	38	25*	34*	0*	10*	20*
10000	(138)	(119*)	(16)	(13*)	(34)	(29*)	(25*)	(0*)	(16*)	(18*)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(779)	(1227)	(376)	(266)	(254)	(895)	(539)	(367)	(382)	(195)

Con. μg/plate	Experimental Data: Number of Revertants/plate, Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
H_2O	(233)	(277)	(242)	(319)	(133)	(199)
	214	252	208	335	130	195
	238	258	252	320	119	181
0.153	(226)	(255)	(230)	(328)	(125)	(188)
	206	259	234	322	136	184
	220	246	249	297	105	201
0.610	(213)	(253)	(242)	(310)	(121)	(193)
	233	245	271	352	130	200
	223	269	260	326	134	177
2.44	(228)	(257)	(266)	(339)	(132)	(189)
	202	246	213	298	122	167
	212	262	266	346	134	194
9.77	(207)	(254)	(240)	(322)	(128)	(181)
	220	291	216	360	139	166
	232	258	195	331	123	177
39.1	(226)	(275)	(206)	(346)	(131)	(172)
	239	235	258	310	144	180
	222	268	271	331	119	183
156	(231)	(252)	(265)	(321)	(132)	(182)
	208	275	259	295	123	191
	207	252	242	325	108	159
625	(208)	(264)	(251)	(310)	(116)	(175)
	238	260	260	279	144	213
	236	255	248	291	130	171
2500	(237)	(258)	(254)	(285)	(137)	(192)
	230	243*	402	344*	116*	214*
	233	227*	391	355*	163	197*
10000	(232)	(235*)	(397)	(350*)	(140*)	(206*)
Judgement	—	—	—	—	—	—
Specific Mutagenicity						
Positive Control	BLM	2AA	PA	2AA	AF2	2AA
	(623)	(1411)	(1999)	(1014)	(2401)	(1152)

Experimental Data						
Con. μg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
H_2O	(271)	(302)	(296)	(383)	(152)	(219)
	262	311	301	350	158	204
	275	319	300	320	152	185
156	(269)	(315)	(301)	(335)	(155)	(195)
	245	316	282	356	170	227
	286	309	310	385	139	195
313	(266)	(313)	(296)	(371)	(155)	(211)
	239	325	305	362	135	226
	238	307	318	337	159	205
625	(239)	(316)	(312)	(350)	(147)	(216)
	248	305	316	352	149	214
	300	324	317	373	153	204
1250	(274)	(315)	(317)	(363)	(151)	(209)
	268	330	313	325	157	234
	262	319	298	342	159	209
2500	(265)	(325)	(306)	(334)	(158)	(222)
	309	325	320	364	183	208
	248	297	336	356	141	221
5000	(279)	(311)	(328)	(360)	(162)	(215)
	269	230*	476	488*	200	220*
	222	208*	541	476*	186	209*
10000	(246)	(219*)	(509)	(482*)	(193)	(215*)
Judgement	—	—	—	—	—	—
Specific Mutagenicity Positive Control	BLM	2AA	PA	2AA	AF2	2AA
	(924)	(1564)	(1266)	(946)	(2463)	(1069)