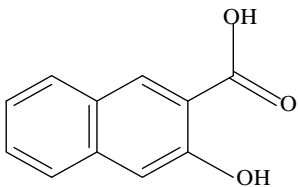


3-Hydroxy-2-naphthoic acid (3-ヒドロキシ-2-ナフトエ酸)

Experimental Data-1

(B9819-1/2)

Chemical Name	: 3-Hydroxy-2-naphthoic acid
Synonym	: 3-Hydroxy-2-naphthalenecarboxylic acid β-Hydroxynaphthoic acid 3-ヒドロキシ-2-ナフトレンカルボン酸 β-オキシナフトエ酸
Molecular Weight	: 188.18
Melting Point	: 222-223°C [Merck]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₁₁ H ₈ O ₃
Chemical Structure	
CAS No.	: 92-70-6
MITI No.	: (4)-398
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Wako Junyaku Kogyo Co., Ltd.
Lot No.	: WLT1397
Purity	: 97%
Vehicle	: DMSO

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(163)	(154)	(9)	(8)	(41)	(57)	(15)	(21)	(6)	(8)
1 .22	166 (165)	185 (193)	8 (7)	10 (10)	21 (22)	66 (64)	11 (12)	29 (27)	6 (6)	11 (9)
4 .88	172 (173)	184 (180)	7 (9)	7 (8)	36 (34)	77 (67)	15 (16)	23 (21)	6 (6)	9 (9)
19 .5	186 (176)	207 (198)	9 (10)	7 (10)	34 (34)	69 (59)	16 (16)	16 (23)	7 (5)	13 (10)
78 .1	167 (163)	202 (215)	10 (9)	10 (9)	37 (39)	56 (62)	13 (15)	24 (20)	7 (8)	9 (11)
313	139 (137)	181 (169)	6 (7)	9 (8)	34 (32)	51 (53)	25 (21)	29 (31)	9 (8)	10 (8)
1250	82 (80)	120 (114)	6 (5)	8 (7)	28 (23)	21 (20)	13 (14)	17 (14)	10 (8)	14 (13)
5000	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	3 * (2 *)	0 * (0 *)	0 * (0 *)	3 * (4 *)	0 * (0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (662)	2-AA (1145)	NaN ₃ (339)	2-AA (243)	AF-2 (673)	2-AA (722)	AF-2 (426)	2-AA (381)	9-AA (578)	2-AA (154)

Mutagenicity in Bacterial Test ; Positive

* Growth inhibition was observed.

IARC Evaluation ; not yet cited

Experimental Data-2

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 ^{avr} A/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(163)	(175)	(12)	(12)	(45)	(59)	(14)	(23)	(6)	(7)
	119	174	16	13	18	46	14	18	8	3
78 .1	(128)	(188)	(15)	(14)	(25)	(48)	(15)	(21)	(7)	(5)
	121	126	9	13	43	62	11	29	5	7
156	(118)	(140)	(9)	(17)	(37)	(57)	(12)	(22)	(6)	(7)
	120	144	13	10	39	40	11	25	8	10
313	(117)	(158)	(14)	(13)	(32)	(40)	(12)	(25)	(7)	(8)
	131	150	14	13	23	31	11	18	8	9
625	(124)	(133)	(13)	(12)	(25)	(32)	(10)	(20)	(8)	(10)
	55	68	8	10	36	74	17	16	9	7
1250	(64)	(91)	(12)	(13)	(30)	(47)	(16)	(17)	(9)	(6)
	39 *	38 *	11 *	13 *	13 *	7 *	0 *	17 *	37 *	9 *
2500	(34 *)	(47 *)	(10 *)	(10 *)	(12 *)	(7 *)	(0 *)	(15 *)	(31 *)	(6 *)
	0 *	0 *	0 *	0 *	0 *	3 *	0 *	0 *	0 *	0 *
5000	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(3 *)	(0 *)	(0 *)	(0 *)	(0 *)
Judgement	-	-	-	-	-	-	-	-	+	-
Specific Mutagenicity									10	
Positive Control	AF-2 (702)	2-AA (1118)	NaN ₃ (394)	2-AA (278)	AF-2 (589)	2-AA (601)	AF-2 (486)	2-AA (434)	9-AA (421)	2-AA (139)

Experimental Data-3

(B9819-2/2)

Conc. μ g/plate	Number of Revertants/plate	
	Frame-shift	
	TA1537	
DMSO	S9-	
	(6)	
	5	
200	(6)	
	3	
400	(3)	
	6	
600	(7)	
	6	
800	(6)	
	8	
1000	(8)	
	7	
1500	(8)	
	15 *	
2000	(12 *)	
	21 *	
2500	(22 *)	
	31 *	
3000	(42 *)	
	17 *	
3500	(21 *)	
	0 *	
4000	(0 *)	
	0 *	
4500	(0 *)	
	0 *	
5000	(0 *)	
Judgement	+	
Specific Mutagenicity	12	
Positive Control	9-AA (520)	