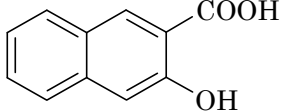


3-Hydroxy-2-naphthoic acid (3-ヒドロキシ-2-ナフトエ酸)Experimental Data (Short treatments)

Chemical Name	: <u>3-Hydroxy-2-naphthoic acid</u>
Synonym	: <u>2-Hydroxy-3-naphthoic acid</u> <u><math>\beta</math>-Hydroxynaphthoic acid</u> <u>3-Hydroxy-2-naphthalene-carboxylic acid</u>
Molecular Weight	: 188.18
Melting Point	: 222-223°C [Merck]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C <sub>11</sub> H <sub>8</sub> O <sub>3</sub>
Chemical Structure :	
CAS No.	: 92-70-6
MITI No.	: (4)-398
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Wako Pure Chemical Industries Ltd.
Lot No.	: WAP0402
Purity	: 100.0%
Vehicle	: Dehydrated DMSO

Treatment Time (h)	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration (%)				
			No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total	
				ctb	cte	csb	cse									
6-18	-	[DMSO] (1%)	200	0.5	1	0	0	0	0	1.5	0	100	208	3.8	0	3.8
		0.2	200	0.5	0	0	0	0	0	0.5	0	95	209	3.8	0.5	4.3
		0.4	200	1	2	0	0	0	0	3	0.5	87	216	5.6	1.9	7.4
		0.6	200	1	0.5	0	0	0	0	1.5	0	82	209	2.9	1.4	4.3
		0.8	200	1	4.5	0	0	0	0	5.5	1	74	212	4.7	0.9	5.7
		1.0†	200	3.5	7	0	0	0	0	10	0.5	59	201	0.5	0	0.5
		1.2†	200	8.5	18	0	0	0	0	20	0.5	42	204	2.0	0	2.0
		[MMC] (0.0001)	200	17.5	50.5	0	0	0	0	59	0.5	-	201	0.5	0	0.5
6-18	+	[DMSO] (1%)	200	0	0	0	0	0	0	0	100	201	0.5	0	0.5	
		0.2	200	0	1	0	0	0	0	1	0.5	85	207	1.4	1.9	3.4
		0.4	200	0	1	0	0	0	0	1	1	76	204	0.5	1.5	2.0
		0.6	200	0	1.5	0	0	0	0	1.5	0	72	207	2.4	1.0	3.4
		0.8	200	0.5	4.5	0	0	0	0	5	0.5	67	220	9.1	0	9.1
		1.0†	200	2	11.5	0	0	0	0	12.5	1.5	44	208	3.8	0	3.8
		1.2†	124	8.1	26.6	0	0	0	0	28.2	2.4	14	129	3.9	0	3.9
		[B[a]P] (0.01)	200	5.5	29.5	0	0	0	0	30	0	-	209	4.3	0	4.3

Judgement for Chromosomal Aberration in CHL : Positive

IARC Evaluation : Not yet cited

※ Test conditions: S9mix ; 5%, Treatment time ; 6h, Recovery time ; 18h

† Test chemical was precipitated with and without S9mix.

Experimental Data without Metabolic Activation (Continuous treatments)

Treatment Time (h)	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)			
		No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total
			ctb	cte	csb	cse								
24-0	[DMSO] (1%)	200	1	1	0	0	0	2	1.5	100	202	1.0	0	1.0
	0.05	200	0	1	0	0	0	1	0	81	204	2.0	0	2.0
	0.1	200	0.5	1	0	0	0	1.5	1	66	204	2.0	0	2.0
	0.2	200	2.5	1	0	0	0	3.5	1.5	50	202	1.0	0	1.0
	0.3	200	2	1	0	0	0	2.5	1	46	205	2.4	0	2.4
	0.4	200	3	2.5	0	0	0	5.5	2	45	201	0.5	0	0.5
	0.5	66	3	1.5	0	0	0	4.5	3	42	67	1.5	0	1.5
	[MMC] (0.00004)	200	17	58.5	0	0	0	65.5	2.5	—	205	2.4	0	2.4
48-0	[DMSO] (1%)	200	1.5	1	0	0	0	2.5	0	100	200	0	0	0
	0.05	200	0.5	1.5	0	0	0	2	0.5	60	201	0.5	0	0.5
	0.1	200	2	3	0	0	0	5	1	41	204	2.0	0	2.0
	0.15	200	4.5	6	0.5	0	0	9	1	33	207	3.4	0	3.4
	0.2	200	9	11	0	0	0	18.5	2.5	14	208	3.4	0.5	3.8
	0.25	144	9.7	11.1	0	0	0	19.4	2.8	16	150	4.0	0	4.0
	[MMC] (0.00004)	200	23	80	0	0	0	85	0	—	201	0.5	0	0.5

※ Test conditions: Treatment time ; 24h or 48h, Recovery time ; 0h