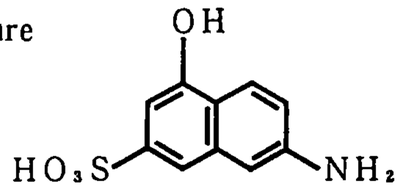
2-Amino-5-hydroxy-7-naphthalenesulfonic acid (2-アミノ-5-ナフトール-7-スルホン酸(J酸))　　Experimental Data

Chemical Name: 2-Amino-5-hydroxy-7-naphthalenesulfonic acid
Synonym 2-Naphthalenesulfonic acid, 7-amino-4-hydroxy-
Molecular weight:239.25
Melting point: ℃
Boiling point: ℃

Chemical Structure



CAS No : 87-02-5
MITI No: (4)-514
Source of Substance: Tokyo Kasei Kogyo Co,. Ltd.
Lot.No.: AI01
Purity: %
Vehicle: PBS in the case of S9 free
: CMC in the case of S9 plus

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

	Treated Time (Hr)	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
PBS	24		200	0.5	−	1.0	0	0.5	0	0	0.5	1.5	−
	48		200	0.5	−	0	0	0	0	0	0	0	−
Test Chemical													
	24	1.0	200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
		1.5	200	1.0	−	1.0	1.5	2.0	0	0	3.5	4.5	−
		2.0	200	1.5	−	0.5	1.0	3.5	0	0	4.5	5.0	±
		2.5	200	0.5	−	2.5	1.5	2.5	0	0	4.0	6.5	±
	48	1.0	200	0.5	−	0.5	0	0	0	0	0	0.5	−
		1.5	200	0.5	−	1.0	0	1.0	0	0	1.0	2.0	−
		2.0	200	0.5	−	2.0	1.5	1.5	0	0	3.0	5.0	±
		2.5	200	1.0	−	1.5	1.0	0.5	0	0	1.5	3.0	−
Positive Control													
(MMC)	24	0.0001	200	0	−	3.5	8.0	30.5	0	0	35.0	37.5	+
	48	0.0001	200	0.5	−	6.0	11.5	34.5	0	0	39.5	41.5	+

Experimental Data

	S9 wilh or without	Concent-ration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
CMC	−		200	0	−	0.5	0.5	0	0	0	0.5	1.0	−
	+		200	0	−	0.5	0	0	0	0	0	0.5	−
Test Chemical													
	−	0.5	200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
		1.0	200	0	−	1.5	0	0	0	0	0	1.5	−
		2.0	200	0	−	1.0	1.0	0.5	0	0	1.5	2.5	−
		4.0	200	0	−	0.5	0.5	0.5	0	0	1.5	2.0	−
		8.0				No observation for metaphase							
	+	0.5	200	0	−	0	0	0.5	0	0	0.5	0.5	−
		1.0	200	0	−	0.5	0	1.5	0	0	1.5	2.0	−
		2.0	200	0.5	−	0	0.5	6.5	0	0	7.0	7.0	±
		4.0	200	1.5	−	2.0	3.5	16.0	0	0	18.5	19.0	+
		8.0				No observation for metaphase							
Positive Control													
(B(a)P)−		0.016	200	0	−	1.0	0	1.0	0	0	1.0	2.0	−
	+	0.016	200	0	−	3.0	4.5	25.0	0	0	27.5	28.5	−