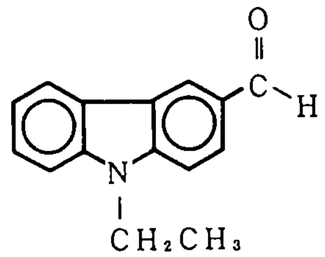
N-Ethylcarbazole-3-carbaldehyde (N-エチルカルバゾール-3-カルバルデヒド)

Chemical Name: N-Ethylcarbazole-3-carbaldehyde
Synonym: 9H-Carbazole-3-carboxaldehyde, 9-ethyl-
Molecular weight: 223
Melting point: ℃
Boiling point: ℃

Chemical Structure



CAS No : 7570-45-8
MITI No : (5)-5798
ML No : 8-(1)-1725
Source of Substance:
Lot.No.:
Purity: %
Vehicle: DMSO

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Aldrich
9-Ethyl-3-carbazolecarboxaldehyde

Experimental Data

	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
DMSO	24		200	1.5	−	0	0	1.0	0	0	1.5	1.5	−
	48		200	0	−	0.5	0.5	1.0	0	0	1.5	2.0	−
Test Chemical													
	24	0.01	200	1.0	−	0	0	0	0	0	0	0	−
		0.02	200	1.5	−	0	0.5	0	0	0	0.5	0.5	−
		0.04	200	0	−	0	0	0	0	0	0	0	−
		0.06	200	0.5	−	0	1.0	0	0	0	1.0	1.0	−
		0.08				No observation for metaphase							
	48	0.01	200	0	−	0	0	0.5	0	0	0.5	0.5	−
		0.02	200	0.5	−	0	0	0	0	0	0	0	−
		0.04	200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.06	200	2.0	−	0	0	0.5	0	0	0.5	0.5	−
		0.08				No observation for metaphase							
Positive Control													
(MMC)	24	0.00005	200	0	−	2.5	10.0	49.0	0	0	52.5	54.5	+
	48	0.00005	200	1.5	−	2.0	17.0	62.0	0	1.0	68.0	68.0	+

Experimental Data

	S 9 with or without	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
DMSO	−		200	0	−	0	0	0	0	0.5	0.5	0.5	−
	+		200	0.5	−	0.5	0.5	1.0	0	0	1.0	1.5	−
Test Chemical													
	−	0.03	200	0	−	0	0	0	0	0	0	0	−
		0.06	200	3.0	−	0.5	0	0	0	0	0	0.5	−
		0.09	200	6.5	±	0.5	2.0	8.0	0.5	0.5	8.5	8.5	±
		0.12				No observation for metaphase							
		0.15				No observation for metaphase							
	+	0.03	200	1.0	−	0.5	1.0	1.5	0	0	2.5	3.0	−
		0.06	200	2.5	−	0.5	0.5	3.0	0	0	3.5	4.0	−
		0.09	200	3.5	−	2.0	3.0	6.5	0	0	8.5	10.0	+
		0.12	200	4.0	−	2.5	5.5	8.0	0	0	11.0	12.0	+
		0.15				No observation for metaphase							
Positive Control													
(B(a)P)	−		200	1.0	−	0	0	1.0	0	0	1.0	1.0	−
	+		200	1.0	−	4.0	21.0	44.5	0	0.5	50.0	52.0	+