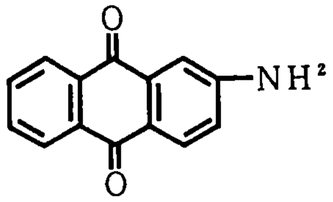
## 2-Aminoanthraquinone (2-アミノアントラキノン)

Chemical Name: 2-Aminoanthraquinone
Synonym: 9,10-Anthracenedione, 2-amino-
Molecular weight: 223.22
Melting point: 303～306℃
Boiling point: ℃

Chemical Structure




CAS No : 117-79-3
MITI No : (4)-706
Source of Substance: Wako Pure Chemical Ind., Ltd.
Lot.No.: CTG1001
Purity: %
Vehicle: DMSO

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

## 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 | 1.0 | − | 0 | 0.5 | 0 | 0 | 0 | 0.5 | 0.5 | − |
| | 48 | | 200 | 1.0 | − | 0.5 | 0.5 | 0 | 0 | 0 | 0.5 | 1.0 | − |
| Test Chemical | | | | | | | | | | | | | |
| | 24 | 0.0047 | 200 | 2.5 | − | 1.5 | 1.5 | 1.0 | 0 | 0 | 2.5 | 3.5 | − |
| | | 0.019 | 200 | 11.0 | + | 3.0 | 2.0 | 5.0 | 0 | 0 | 7.0 | 9.0 | ± |
| | | 0.075 | 200 | 12.0 | + | 2.5 | 3.0 | 9.5 | 0 | 0 | 12.5 | 15.0 | + |
| | | 0.3 | 200 | 7.5 | ± | 6.0 | 5.0 | 12.5 | 0 | 0 | 16.0 | 19.5 | + |
| | | 1.2 | 200 | 2.5 | − | 4.5 | 4.5 | 19.5 | 0 | 0.5 | 22.5 | 25.5 | + |
| | 48 | 0.0047 | 200 | 6.0 | ± | 0.5 | 1.5 | 1.0 | 0 | 0.5 | 3.0 | 3.5 | − |
| | | 0.019 | 200 | 18.0 | + | 2.5 | 2.0 | 3.0 | 0 | 0.5 | 5.0 | 7.5 | ± |
| | | 0.075 | 200 | 35.5 | + | 4.0 | 2.5 | 10.0 | 0.5 | 1.0 | 13.5 | 15.0 | + |
| | | 0.3 | 200 | 25.0 | + | 1.5 | 3.5 | 12.0 | 0.5 | 0.5 | 15.0 | 16.0 | + |
| | | 1.2 | 200 | 4.0 | − | 2.5 | 5.5 | 19.5 | 0 | 0.5 | 24.0 | 25.5 | + |
| Positive Control | | | | | | | | | | | | | |
| (MMC) | 24 | 0.00005 | 200 | 1.5 | − | 2.0 | 4.5 | 26.5 | 0 | 0 | 28.0 | 29.5 | + |
| | 48 | 0.00005 | 200 | 2.0 | − | 1.5 | 8.0 | 27.0 | 1.5 | 0 | 32.0 | 33.0 | + |

NOTE : The chemical was precipitated at the concentration of 1.2mg/ml.

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 | 2.0 | − | 0.5 | 0.5 | 0.5 | 0.5 | 0 | 1.5 | 2.0 | − |
| | + | | 200 | 1.5 | − | 1.0 | 0.5 | 0.5 | 0 | 0 | 1.0 | 2.0 | − |
| Test Chemical | | | | | | | | | | | | | |
| | − | 0.075 | 200 | 16.0 | + | 2.5 | 4.5 | 6.0 | 0 | 0 | 10.0 | 11.5 | + |
| | | 0.15 | 200 | 11.5 | + | 2.0 | 4.5 | 11.0 | 0 | 0 | 15.0 | 15.5 | + |
| | | 0.3 | 200 | 13.5 | + | 2.5 | 3.5 | 6.0 | 0 | 0 | 9.5 | 11.5 | + |
| | | 0.6 | 200 | 9.0 | ± | 0 | 0.5 | 6.5 | 0 | 0 | 7.5 | 7.5 | ± |
| | | 1.2 | 200 | 1.5 | − | 2.0 | 1.5 | 2.5 | 0 | 0 | 4.0 | 6.0 | ± |
| | + | 0.075 | 200 | 2.0 | − | 0.5 | 0 | 1.0 | 0 | 0 | 1.0 | 1.5 | − |
| | | 0.15 | 200 | 2.5 | − | 1.5 | 1.5 | 2.0 | 0 | 0 | 3.0 | 4.5 | − |
| | | 0.3 | 200 | 2.5 | − | 0 | 0 | 3.0 | 0 | 0 | 3.0 | 3.0 | − |
| | | 0.6 | 200 | 0.5 | − | 0.5 | 0 | 1.0 | 0 | 0 | 1.0 | 1.5 | − |
| | | 1.2 | 200 | 2.5 | − | 0.5 | 0.5 | 1.5 | 0 | 0 | 2.0 | 2.5 | − |
| Positive Control | | | | | | | | | | | | | |
| (B(a)P) | − | | 200 | 0.5 | − | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | − |
| | + | | 200 | 0.5 | − | 5.0 | 7.5 | 47.5 | 0 | 0 | 49.5 | 50.0 | + |

NOTE : The chemical was precipitated at the concentration of 1.2mg/ml.