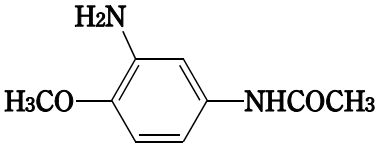
3'-Amino-4'-methoxyacetanilide
【3'-ｱﾐﾉ-4'-ﾒﾄｷｼｱｾﾄｱﾆﾘﾄﾞ】

Chemical Name;3'-Amino-4'-methoxyacetanilide
Synonym ;5-Acetamino-2-methoxyaniline
5-Acetamido-2-anisidine
N-(3-Amino-4-methoxyphenyl)-acetamide
5-ｱｾﾄｱﾐﾉ-2-ﾒﾄｷｼｱﾆﾘﾝ
5-ｱｾﾄｱﾐﾄﾞ-2-ｱﾆｼｼﾞﾝ
N-(3-ｱﾐﾉ-4-ﾒﾄｷｼﾌｪﾆﾙ)ｱｾﾄｱﾐﾄﾞ

Molecular Weight ; 180.21
Melting Point ; 106 - 109 ℃
Boiling Point ; — ℃
Flashing Point ; — ℃
Molecular Formula; $C_9H_{12}N_2O_2$

Chemical Structure



CAS No. ; 6375-47-9
MITI No. ; (3)-731 , (3)-2797
ML No. ; —
Specified Chemical Substances; —

Source of Substance; Tokyo Kasei Kogyo Co.,Ltd.
Lot No. ; A001
Purity ; 96.0 %

Vehicle ; DMSO

Judgement for
Chromosomal Aberration in CHL ; **Positive**

IARC Evaluation ; not yet cited

Exprimental Data without Metabolic Activation

Treatment						Cell with Structural Chromosome Aberration (%)							
Substance	Time (h)	Concent-ration (mg/ml)	No. of Metaphase	Polyploid (%)	**Judge-ment**		Chromatid		Chromosome		Total		**Judge-ment**
						Gap	CTB	CTE	CSB	CSE	−G	+G	
DMSO	24	1.0 %	200	2.0	−	0.0	0.5	0.0	0.0	0.0	0.5	0.5	−
	48	1.0 %	200	1.5	−	0.0	1.0	1.0	0.0	0.0	2.0	2.0	−
Test Chemical	24	0.25	200	1.0	−	0.0	1.5	0.0	0.0	0.0	1.5	1.5	−
		0.5	200	1.5	−	0.5	1.0	1.0	0.0	0.0	2.0	2.0	−
		1.0	200	0.0	−	0.5	1.0	0.5	0.0	0.0	1.5	2.0	−
		2.0	200	0.5	−	1.0	2.5	4.5	0.0	0.0	6.5	7.5	±
		3.0	200	0.5	−	3.0	15.5	12.5	0.0	0.0	23.5	25.0	+
	48	0.25	200	0.0	−	0.5	1.0	1.0	0.0	0.0	2.0	2.0	−
		0.5	200	0.0	−	0.0	0.5	0.5	0.0	0.0	1.0	1.0	−
		1.0	200	2.0	−	1.0	2.0	4.0	0.0	0.0	5.0	6.0	±
		2.0	200	1.0	−	0.5	3.5	4.5	0.0	0.0	7.5	8.0	±
		3.0				No observation for metaphase							
Positive Control [MMC]	24	0.00004	200	3.0	−	2.0	11.0	15.0	0.0	0.0	23.0	23.0	+
	48	0.00004	200	2.5	−	1.5	15.0	30.0	0.0	0.0	40.0	40.5	+

※ There was no observation for metaphase with both treatment of 24Hr and 48Hr at 4.0 mg/ml.

Exprimental Data with Metabolic Activation

Treatment						Cell with Structural Chromosome Aberration (%)							
Substance	S9 mix	Concent-ration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge-ment	Gap	Chromatid CTB	Chromatid CTE	Chromosome CSB	Chromosome CSE	Total −G	Total +G	Judge-ment
DMSO	−	1.0 %	200	0.5	−	0.5	0.0	0.0	0.0	0.0	0.0	0.5	−
	+	1.0 %	200	1.5	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
Test Chemical	−	0.019	200	1.0	−	1.0	0.0	0.5	0.0	0.0	0.5	1.5	−
		0.078	200	2.5	−	0.0	0.5	0.5	0.0	0.0	1.0	1.0	−
		0.31	200	1.0	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		1.3	200	4.0	−	0.0	1.0	0.5	0.0	0.0	1.5	1.5	−
		5.0	200	3.5	−	0.0	0.5	2.0	0.0	0.0	2.0	2.0	−
	+	0.019	200	1.0	−	0.0	1.0	4.5	0.0	0.0	4.5	4.5	−
		0.078	200	3.0	−	2.0	7.5	19.5	0.0	0.0	21.0	21.5	+
		0.31	200	6.0	±	2.5	9.5	22.0	0.0	0.0	24.5	24.5	+
		1.3	200	2.0	−	1.5	12.5	20.5	0.0	0.0	23.5	23.5	+
		5.0	200	2.5	−	2.5	19.0	30.0	0.0	0.0	34.5	34.5	+
Positive Control [B(a)P]	−	0.01	200	0.0	−	0.5	0.5	0.0	0.0	0.0	0.5	1.0	−
	+	0.01	200	2.0	−	1.5	6.0	34.0	0.0	0.0	36.5	36.5	+