

5' - [N,N-Bis [2-(isobutoxycarbonyloxy)ethyl] amino] -4'-methoxy-2'-(5-nitro-2-thiazolylazo)acetanilide

5' - [N,N-ビス [2-(イソブトキシカルボニルオキシ)エチル] アミノ] -4'-メトキシ-2'-(5-ニトロ-2-チアゾリルアゾ)アセトアニリド

Experimental Data

Chemical Name:
Synonym 2, 8, 10-Trioxa-5-azatridecanoic acid, 5- [5-acetylamino] -2-methoxy-4-[(5-nitro-2-thiazolyl)azo] phenyl-12-methyl-9-oxo-, 2-methylpropyl ester

Molecular weight: 622.7
Boiling point: °C
Melting point: 157-158°C

Chemical Structure

CAS No : 82457-22-5
 MITI No : (5)-5545
 ML No : 8-(7)-725
 Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
 Lot.No. : 88-CC-01
 Purity:
 Vehicle: DMSO

	Treated Time (Hr)	Concentration (mg/ml)	No. of Mate-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
						Gap		CTB	CTE	CSB	CSE	Total		
						-G	+G	-G	+G	-G	+G	Judge		
DMSO	24		200	0	-	0	0	0	0	0	0	0	0	-
	48		200	0	-	0	0	0	0	0	0	0	0	-
Test chemical	24	0.0063	200	0	-	0	0.5	0.5	0	0	1.0	1.0	-	
		0.013*	200	10.5	+	0	0.5	0.5	0	0	1.0	1.0	-	
		0.025*	200	14.0	+	0.5	0.5	0.5	0	0	1.0	1.5	-	
		0.05 *	200	8.5	±	1.0	1.0	0	0	0	1.0	2.0	-	
		0.1 *	200	5.0	±	0.5	0.5	1.0	0	0	2.5	3.0	-	
	48	0.0063	200	0	-	0	0	0.5	0	0	0.5	0.5	-	
		0.013*	200	6.5	±	0.5	0	0	0	0	0	0.5	-	
		0.025*	200	21.0	+	0	1.0	0	0	0	1.0	1.0	-	
		0.05 *	200	18.5	+	1.0	1.0	0.5	0	0	1.5	2.5	-	
		0.1 *	200	19.0	+	1.5	1.0	0.5	0	0	1.5	3.0	-	
Positive Control (MMC)	24	0.00008	200	0	-	5.5	6.0	27.5	0	0	32.5	34.0	+	
	48	0.00008	200	0	-	4.5	11.5	52.5	0	0.5	56.0	56.0	+	

* : Test chemical was precipitated.

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- Phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								Judge
								Total					
					Gap	CTB	CTE	CSB	CSE	-G	+G		
DMSO —		200	0.5	—	0.5	0.5	0	0	0	0.5	1.0	—	
+		200	0	—	0	0	0.5	0	0	0.5	0.5	—	
Test chemical													
—	0.05	200	19.5	+	0.5	0.5	0	0	0	0.5	1.0	—	
	0.1	200	24.0	+	0	0	1.0	0	0	1.0	1.0	—	
	0.2	200	13.0	+	0.5	0.5	0	0	0	0.5	1.0	—	
	0.4	200	18.5	+	1.0	0.5	0	0	0	0.5	1.0	—	
	0.8	200	32.0	+	0	0.5	0	0	0	1.0	1.0	—	
+	0.05	200	0	—	0.5	0	0.5	0	0	0.5	1.0	—	
	0.1	200	2.0	—	0	0	0.5	0	0	0.5	0.5	—	
	0.2	200	5.0	±	0	0	0.5	0	0	0.5	0.5	—	
	0.4	200	6.0	±	0	0	0.5	0	0	0.5	0.5	—	
	0.8	200	12.0	+	0	0.5	0.5	0	0	1.0	1.0	—	
Positive Control													
(B(a)P) —	0.008	200	0.5	—	0	0	0	0	0	0	0	—	
+	0.008	200	0.5	—	4.0	4.5	28.0	0	0	30.0	32.5	+	

* : Test chemical was precipitated.