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

Chemical Name:

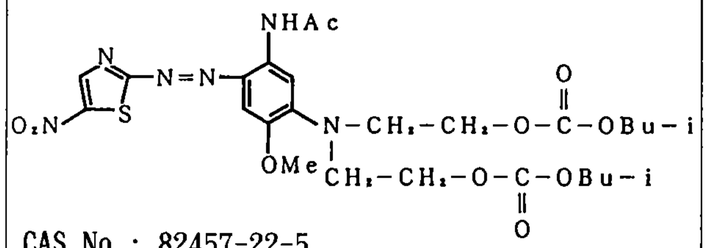
Synonym: 2,8,10-Trioxa-5-azatridecanoic acid, 5-〔5-acetylamino〕-2-methoxy-4-〔(5-nitro-2-thiazolyl)azo〕phenyl-12-methyl-9-oxo-, 2-methylpropyl ester

Molecular weight: 622.7

Boiling point: ℃

Melting point: 157-158℃

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

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	0	−	0	0	0	0	0	0	0	−
	48		200	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.

Experimental Data

	S 9 with or without	Concentration (mg/ml)	No. of Meta-Phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							
						Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
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.