

[2'-(4-クロロ-3-シアノ-5-ホルミル-2-チエニルアゾ)-5'-ジエチルアミノ-2-メトキシアセトアニリド]

Chemical Name; 2'-(4-Chloro-3-cyano-5-formyl-2-thienylazo)-5'-diethylamino-2-methoxyacetanilide

Synonym ; N-[2-[(4-Chloro-3-cyano-5-formyl-2-thienyl)azo]-5-(diethylamino)-phenyl]-2-methoxyacetamide
N-[2-[(4-クロロ-3-シアノ-5-ホルミル-2-チエニルアゾ)-5-(ジエチルアミノ)フェニル]-2-メトキシアセトアニリド]

Molecular Weight ; 433.92

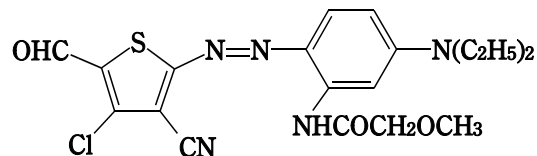
Melting Point ; ≥ 300 °C

Boiling Point ; - °C

Flashing Point ; - °C

Molecular Formula; C₁₉H₂₀ClN₅O₃S

Chemical Structure



CAS No. ; 122371-93-1

MITI No. ; [(5)-6192]

ML No. ; 8-(6)-146

Specified Chemical Substances; -

Source of Substance; -

Lot No. ; -

Purity ; -

Vehicle ; DMSO

Experimental Data without Metabolic Activation

Substance	Treatment		No. of Metaphase	Polyploid (%)	Judgement	Cell with Structural Chromosome Aberration (%)							
	Time (h)	Concentration (mg/ml)				Chromosome					Total		Judgement
						Gap	Chromatid	Chromosome		-G	+G		
			CTB	CTE	CSB	CSE							
DMSO	24		200	1.0	-	0.0	0.0	1.0	0.0	0.0	1.0	1.0	-
	48		200	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
Test Chemical	24	0.05 *	200	4.5	-	0.0	1.0	1.0	0.0	0.0	2.0	2.0	-
		0.1 *	200	1.5	-	0.5	0.0	3.0	0.0	0.0	3.0	3.5	-
		0.2 *	200	2.0	-	0.5	3.0	2.0	0.0	0.0	5.0	5.0	±
		0.4 *	200	0.5	-	6.0	19.0	26.0	0.0	0.0	34.5	35.5	+
	48	0.6 *	200	1.0	-	20.5	48.5	39.5	0.0	0.0	79.5	80.0	+
		0.05 *	200	16.5	+	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-
		0.1 *	200	26.0	+	0.0	0.5	0.5	0.0	0.0	1.0	1.0	-
		0.2 *	200	34.5	+	0.0	1.0	3.0	0.0	0.0	4.0	4.0	-
Positive Control [MMC]	24	0.0004	200	1.5	-	1.0	11.0	44.0	0.0	0.0	46.5	47.0	+
	48	0.0004	200	2.0	-	1.0	11.0	52.0	0.0	0.0	55.5	55.5	+

* Test chemical was precipitated.

Judgement for

Chromosomal Aberration in CHL ; **Positive**

IARC Evaluation

; not yet cited

Experimental Data with Metabolic Activation

Treatment			No. of Metaphase	Polyploid (%)	Judge- ment	Cell with Structural Chromosome Aberration (%)							Judge- ment	
Substance	S9 mix	Concent- ration (mg/ml)				Chromatid		Chromosome		Total				
						Gap	CTB	CTE	CSB	CSE	-G	+G		
DMSO	-		200	1.0	-	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-	
	+		200	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	
Test Chemical	-	0.013 *	200	0.5	-	0.0	0.0	0.5	0.0	0.0	1.0	1.0	-	
		0.032 *	200	2.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	
		0.08 *	200	4.5	-	0.0	0.0	1.0	0.0	0.0	1.0	1.0	-	
		0.2 *	200	12.0	+	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-	
		0.5 *	200	4.0	-	0.0	0.5	0.5	0.0	0.0	1.0	1.0	-	
	+	0.013 *	200	2.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.032 *	200	0.5	-	0.0	0.5	0.0	0.0	0.0	0.5	0.5	-	
		0.08 *	200	2.5	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	
		0.2 *	200	0.5	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	
		0.5 *	200	0.0	-	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-	
Positive Control [B(a)P]	-	0.01	200	3.5	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	
	+	0.01	200	0.5	-	0.0	2.0	27.5	0.0	0.0	28.0	28.0	+	

* Test chemical was precipitated.