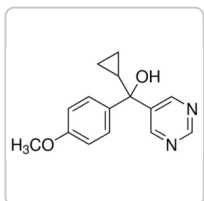


Type in Product Names, Product Numbers, or CAS Numbers to see suggestions.



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A9431 ▶ **Sigma-Aldrich**

Ancymidol

★★★★★ (0)

suitable for plant cell culture, BioReagent

Synonym(s):

reducymol, thritone, α-Cyclopropyl-α-(4-methoxyphenyl)-5-pyrimidinemethanol

Empirical Formula (Hill Notation):

C₁₅H₁₆N₂O₂

CAS Number: **12771-68-5**

Molecular Weight: 256.30

EC Number: **235-814-7**

MDL number: **MFCD00072501**

PubChem Substance ID: **24891450**

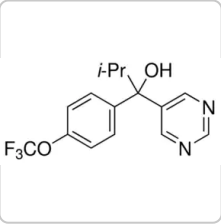
NACRES: NA.72

SKU	Pack Size	Availability	Price	Quantity	
A9431-25MG	25 MG	✓ Only 1 left in stock (more on the way) Details...	€93.40	1	i
A9431-100MG	100 MG	✓ Only 6 left in stock (more on the way) Details...	€275.00	1	i

[Request a Bulk Order](#)

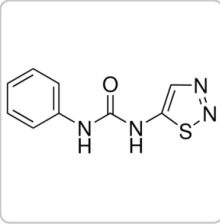
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RECOMMENDED PRODUCTS



Supelco
32523
Flurprimidol
PESTANAL[®], analytical standard

[View Price and Availability](#)



Sigma-Aldrich
P6186
Thidiazuron
suitable for plant cell culture, BioReagent

[View Price and Availability](#)

PROPERTIES

product line	BioReagent
Quality Level	200
form	powder
technique(s)	cell culture plant: suitable
application(s)	agriculture
storage temp.	2-8°C
SMILES string	<chem>COc1ccc(cc1)C(O)(C2CC2)c3ncnc3</chem>

InChI

1S/C15H16N2O2/c1-19-14-6-4-12(5-7-14)15(18,11-2-3-11)13-8-16-10-17-9-13/h4-11,18H,2-3H2,1H3

InChI key

HUTDUHSNJYTCAR-UHFFFAOYSA-N

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DESCRIPTION

General description

Ancymidol, a-cyclopropyl-a-(4-methoxyphenyl)-5-pyrimidinemethanol (EL-53 1), a plant growth retardant is a synthetic pyrimidine analogue. It is also a weak fungitoxic.

Application

Ancymidol has been used as the cytochrome P450 inhibitor to study its effects on *Cyanidioschyzon merolae* strain.

Packaging

25 mg in poly bottle

100 mg in glass bottle

Biochem/physiol Actions

Ancymidol is a pyrimidine-class plant cell endocrine disruptor plant growth regulator that interferes with gibberellin and cellulose biosynthesis.

Ancymidol acts as a monooxygenase inhibitor. It is capable of interrupting gibberellin biosynthesis and growth in plants.

RELATED PRODUCTS

Application

G004683

LC/MS Analysis of Ancymidol Enantiomers on Astec[®] CYCLOBOND[™] I 2000 HP-RSP, application for HPLC

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G004684

HPLC Analysis of Ancymidol Enantiomers on Astec[®] CYCLOBOND[™] I 2000 HP-RSP, application for HPLC

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SAFETY INFORMATION

Storage Class Code

13 - Non Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Flash Point(C)

Not applicable

Personal Protective

Equipment

dust mask type N95 (US),

[Eyeshields](#), [Gloves](#)

DOCUMENTATION

Certificate of Analysis

Enter Lot Number to search for Certificate of Analysis (COA).

Lot Number

e.g. 023J5431

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Lot Number

e.g. 023J5431

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SDS

PEER REVIEWED PAPERS

Isolation and functional characterization of a stolon specific promoter from potato (*Solanum tuberosum* L.).

Luisa M Trindade et al.

Gene, 303, 77-87 (2003-02-01)

In the search for time- and tissue-specific promoters an RNA fingerprinting technique called cDNA-AFLP was used. A transcript derived fragment (TDF511) was isolated which showed high similarity to alcohol dehydrogenases. The gene corresponding to this TDF, named Stgan, is likely

In vitro bulb development in shallot (*Allium cepa* L. *Aggregatum* Group): effects of anti-gibberellins, sucrose and light.

F Le Guen-Le Saos et al.

Annals of botany, 89(4), 419-425 (2002-07-05)

Bulbing was studied in shallot plants cultured in vitro. Bulbing occurred under a 16 h photoperiod with fluorescent + incandescent light and 30-50 g 1(-1) sucrose in the culture medium. Exogenous gibberellin (10 microM GA3) inhibited leaf and root growth

Ancymidol blocks trichothecene biosynthesis and leads to accumulation of trichodiene in *Fusarium sporotrichioides* and *Gibberella pulicaris*.

A E Desjardins et al.

Applied and environmental microbiology, 53(8), 1860-1865 (1987-08-01)

Ancymidol, a plant growth regulator, inhibited biosynthesis of diacetoxyscirpenol by *Gibberella pulicaris* (*Fusarium sambucinum*) in a defined liquid medium. Ancymidol also inhibited biosynthesis of T-2 toxin by a wild-type strain of *Fusarium sporotrichioides* and biosynthesis of diacetoxyscirpenol, deacetylated calonectrin, and

AtOPR3 specifically inhibits primary root growth in *Arabidopsis* under phosphate deficiency.

Hongyan Zheng et al.*Scientific reports, 6, 24778-24778 (2016-04-23)*

The primary root plays essential roles in root development, nutrient absorption, and root architectural establishment. Primary root growth is generally suppressed by phosphate (P) deficiency in *A. thaliana*; however, the underlying molecular mechanisms are largely elusive to date. We found

Methylation of gibberellins by Arabidopsis GAMT1 and GAMT2.

Marina Varbanova et al.*The Plant cell, 19(1), 32-45 (2007-01-16)*

Arabidopsis thaliana GAMT1 and GAMT2 encode enzymes that catalyze formation of the methyl esters of gibberellins (GAs). Ectopic expression of GAMT1 or GAMT2 in *Arabidopsis*, tobacco (*Nicotiana tabacum*), and petunia (*Petunia hybrida*) resulted in plants with GA deficiency and typical

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PROTOCOLS AND ARTICLES

Chromatograms

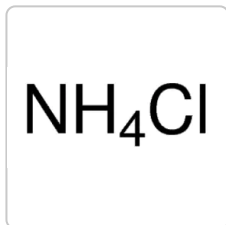
LC/MS Analysis of Ancymidol Enantiomers on Astec® CYCLOBOND™ I 2000 HP-RSP

application for HPLC

HPLC Analysis of Ancymidol Enantiomers on Astec® CYCLOBOND™ I 2000 HP-RSP

application for HPLC

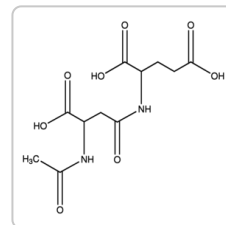
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for molecular biology, suitable for cell culture, ≥99.5%

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Sigma-Aldrich

A9436**N-Acetyl-β-Asp-Glu**[View Price and Availability](#)

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