

**Product Name:** Cyclopiazonic acid

**Catalog No.:** 1235

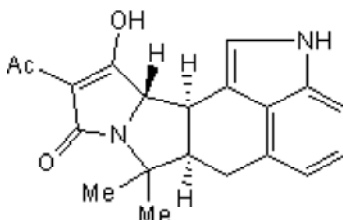
**Batch No.:** 9

CAS Number: 18172-33-3

IUPAC Name: (6a*R*,11a*S*,11b*R*)-*rel*-10-Acetyl-2,6,6a,7,11a,11b-hexahydro-7,7-dimethyl-9*H*-pyrrolo[1',2':2,3]isoindolo[4,5,6-*cd*]indol-9-one

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 336.39  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**Melting Point:** Between 238 - 241°C  
**HPLC:** Shows 97.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	71.41	5.99	8.33
Found	71.15	5.98	8.25

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**Description:**

Cell-permeable, reversible inhibitor of sarcoplasmic reticulum Ca<sup>2+</sup>-ATPase.

**Physical and Chemical Properties:**

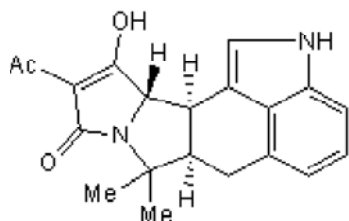
Batch Molecular Formula: C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 336.39

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Soler *et al*** (1998) Cyclopiazonic acid effect on Ca<sup>2+</sup>-dependent conformational states of the sarcoplasmic reticulum ATPase. Implication for the enzyme turnover. *Biochemistry* **37** 4266. PMID: 9521749.

**Takemoto *et al*** (1998) Comparison of contractions produced by CB, thapsigargin and cyclopiazonic acid in the guinea-pig tracheal muscle. *Br.J.Pharmacol.* **124** 1449. PMID: 9723957.

**Plenge-Tellechea *et al*** (1997) On the inhibition mechanism of sarcoplasmic or endoplasmic reticulum Ca<sup>2+</sup>-ATPases by cyclopiazonic acid. *J.Biol.Chem.* **272** 2794. PMID: 9006919.

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