bio-techne
TOCRIS

Print Date: Jul 15th 2024

Certificate of Analysis

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Product Name: **Cyclopiazonic acid** **Catalog No.: 1235** **Batch No.: 11**

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: $C_{20}H_{20}N_2O_3$.

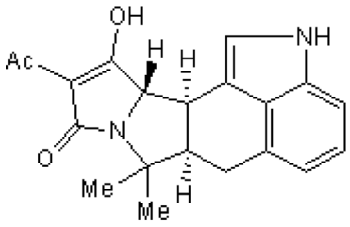
Batch Molecular Weight: 336.39

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

^{1}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:

Cyclopiazonic acid is a cell-permeable, reversible inhibitor of sarcoplasmic reticulum Ca^{2+}-ATPase.

Physical and Chemical Properties:

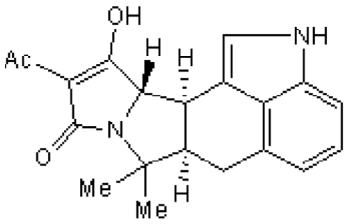
Batch Molecular Formula: $C_{20}H_{20}N_2O_3$.

Batch Molecular Weight: 336.39

Physical Appearance: Yellow 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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^{2+}-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^{2+}-ATPases by cyclopiazonic acid. J.Biol.Chem. ***272*** 2794. PMID: 9006919.