

Product Name: Cantharidin

Catalog No.: 1548

Batch No.: 2

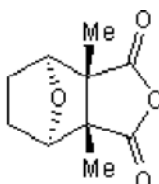
CAS Number: 56-25-7

EC Number: 200-263-3

IUPAC Name: (3 α ,4 β ,7 β ,7 α)-Hexahydro-3a,7a-dimethyl-4,7-epoxyisobenzofuran-1,3-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₂O₄
Batch Molecular Weight: 196.2
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.22	6.16	
Found	61.12	6.22	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Natural toxin inhibitor of protein phosphatases 1 and 2A (K_i values are 1.1 and 0.19 μ M respectively); similar to okadaic acid (Cat. No. 1136). Displays > 500-fold selectivity over PP2B.

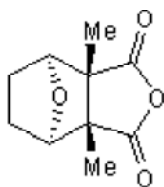
Physical and Chemical Properties:

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Batch Molecular Weight: 196.2

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

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:

Knapp et al (1999) The protein phosphatase inhibitor cantharidin alters vascular endothelial cell permeability. *J.Pharmacol.Exp.Ther.* **289** 1480. PMID: 10336542.

Eldridge and Casida (1995) Cantharidin effects on protein phosphatases and the phosphorylation state of phosphoproteins in mice. *Toxicol.Appl.Pharmacol.* **130** 95. PMID: 7839375.

Honkanen (1993) Cantharidin, another natural toxin that inhibits the activity of serine/threonine protein phosphatases types 1 and 2A. *FEBS Lett.* **330** 283. PMID: 8397101.

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