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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Cantharidin

Phosphatase PP2A inhibitor
Catalog No. SIH-519



Discovery through partnership | Excellence through quality

Overview

Product Name

Cantharidin

Description

Phosphatase PP2A inhibitor

Purity

>98% (GC)

CAS No.

56-25-7

Molecular Formula

C₁₁H₁₀O₁

Molecular Weight

196.2

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in DMSO or 100% ethanol

Source

Synthetic

Appearance

White to off-white solid

SMILES

C[C@@]12[C@H]3CC[C@@H]([C@@]1(C(=O)OC2=O)C)O3

InChI

InChI=1S/C10H12O4/c1-9-5-3-4-6(13-5)10(9,2)8(12)14-7(9)11/h5-6H,3-4H2,1-2H3

InChIKey

DHZBEENLJMYSHQ-UHFFFAOYSA-N

Safety Phrases

Classification:

Acute toxicity, Oral (Category 2), H300

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity -single exposure (Category 3), Respiratory system, H335

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Hazard statements:

H300 Fatal if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P321 Specific treatment (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Cite This Product

Cantharidin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-519)

Biological Description

Alternative Names

3a,7a-Dimethylhexahydro-4,7-epoxyisobenzofuran-1,3-dione, 7a-Dimethylhexahydro-3a,4,7-epoxyisobenzofuran, Cantharidine, Hexahydro-3a,7a-dimethyl-4,7-epoxyisobenzofuran-1,3-dione

Research Areas

Cell Signaling

PubChem ID

2545

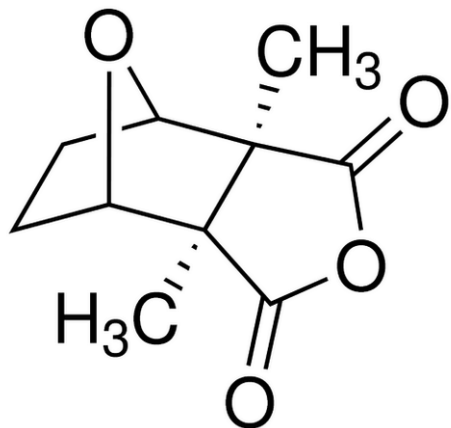
Scientific Background

Cantharidin is an inhibitor of protein phosphatase 1 (PP1) and 2A (PP2A). It is a naturally occurring toxin found in *Mylabris phalerata*.

References

1. Honkanen R. E. (1993) FEBS Letters. 330(3): 283286.
 2. Eldridge R., & Casida J.E. (1995) Toxic. App. Pharm. 130(1): 95100.
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Product Images



Chemical structure of Cantharidin (SIH-519), a Phosphatase PP2A inhibitor. CAS #: 56-25-7. Molecular Formula: C₁₀H₁₂O₄. Molecular Weight: 196.2 g/mol.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.