

Cantharidin, Protein Phosphatase PP2A inhibitor

| Catalog | Unit |
|---------------|-------|
| TBI1013-20MG | 20mg |
| TBI1013-100MG | 100mg |

Product Details

Formal Name: 3 α ,7 α -Dimethylhexahydro-4,7-epoxyisobenzofuran-1,3-dione

Molecular Formula: C₁₀H₁₂O₄

Formula Weight: 196.20

CAS Number: 56-25-7

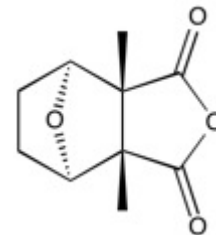
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml) or in Ethanol (up to 5 mg/ml).

Storage: -20°C

Stability: \geq 2 years.



Applications

Protein Phosphatase PP2A inhibitor

Functions

Inhibits protein phosphatase 2A ($K_i=0.19 \mu\text{M}$) and PP1 ($K_i=1.1 \mu\text{M}$). Displays >500-fold selectivity over PP2B. Suppresses growth and migration of PANC-1 pancreatic cancer cells via phosphorylation and degradation of β -catenin. Arrests G2/M transition via JNK/Sp1-dependent down-regulation of CDK1. Cell permeable. Warning: Avoid skin contact, may cause skin irritation or blistering.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml) or in Ethanol (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or Ethanol may be stored at -20°C for up to 2 weeks.

For research use only.