

## Certificate of Analysis

<b>PRODUCT:</b>	<b>Cantharidin</b> 3 $\alpha$ ,7 $\alpha$ -Dimethylhexahydro-4, 7-epoxyisobenzofuran-1,3-dione <b>C<sub>10</sub>H<sub>12</sub>O<sub>4</sub></b> ; <b>M.W. 196.2</b> ; <b>CAS# [56-25-7]</b> ; M.I. 14:1752; RTECS: RN8575000
<b>PRODUCT NUMBER:</b>	C-1412
<b>LOT NUMBER:</b>	L1531
<b>APPEARANCE:</b>	White powder
<b>SOLUBILITY:</b>	Soluble in DMSO (20 mg/ml) or Ethanol (5 mg/ml)
<b>PURITY (HPLC):</b>	>98%
<b>IDENTITY (NMR):</b>	Conforms
<b>PRODUCT INFORMATION:</b>	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 $\beta$ -catenin. Arrests G2/M transition via JNK/Sp1-dependent down-regulation of CDK1. Cell permeable.
<b>COUNTRY of ORIGIN:</b>	USA
<b>STORAGE &amp; HANDLING:</b>	Store desiccated at -20°C. <b><u>WARNING</u>: TOXIC! IRRITANT!</b> <b>PROTECT FROM LIGHT!</b>

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: PC