

Certificate of Analysis

Product Name: Salubrial

Catalog No.: 2347

Batch No.: 1

CAS Number: 405060-95-9

IUPAC Name: 3-Phenyl-N-[2,2,2-trichloro-1-[[[(8-quinolinylamino)thioxomethyl]amino]ethyl]-2-propenamido]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{17}N_4OSCl_3 \cdot \frac{1}{2}H_2O$

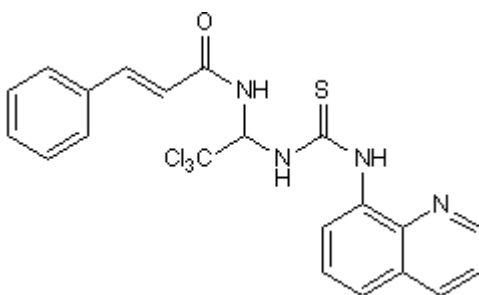
Batch Molecular Weight: 488.82

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.45$ (Dichloromethane:Methanol [98:2])

HPLC: Shows >99.1% purity

1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.6	3.71	11.46
Found	51.68	3.48	11.4

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

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Description:

Cell-permeable, selective inhibitor of cellular phosphatase complexes that dephosphorylate eukaryotic translation initiation factor 2 subunit α (eIF2 α). Protects cells from endoplasmic reticulum stress-induced apoptosis (EC₅₀ ~ 15 μ M).

Physical and Chemical Properties:

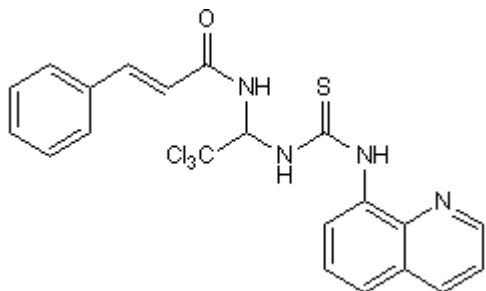
Batch Molecular Formula: C₂₁H₁₇N₄OSCl₃·½H₂O

Batch Molecular Weight: 488.82

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Boyce et al (2005) A selective inhibitor of eIF2 α dephosphorylation protects cells from ER stress. *Science* **307** 935. PMID: 15705855.

Long et al (2005) Structure-activity relationship studies of salubrinal lead to its active biotinylated derivative. *Bioorg.Med.Chem.Lett.* **15** 3849. PMID: 16002288.

Storage: Store at +4°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. 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.

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