

**Product Name:** STO-609 acetate

**Catalog No.:** 1551

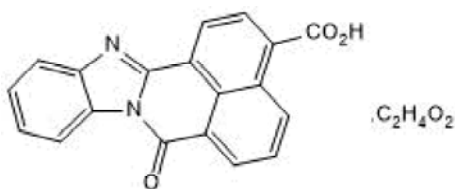
**Batch No.:** 10

CAS Number: 1173022-21-3

IUPAC Name: 7-Oxo-7H-benzimidazo[2,1-a]benz[de]isoquinoline-3-carboxylic acid acetate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>.C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 374.35  
**Physical Appearance:** Yellow solid  
**Solubility:** 100mM NaOH to 45 mM  
 DMSO to 10 mM with sonication  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.38	3.77	7.48
Found	67.17	3.74	7.42

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

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**Description:**

Selective, cell-permeable inhibitor of Ca<sup>2+</sup>-calmodulin-dependent protein kinase kinase (K<sub>i</sub> values are 80 and 15 ng/ml for inhibition of CaM-KKα and CaM-KKβ respectively); competes for the ATP-binding site. Displays > 80-fold selectivity over CaMK1, CaMK2, CaMK4, MLCK, PKC, PKA and p42 MAPK.

**Physical and Chemical Properties:**

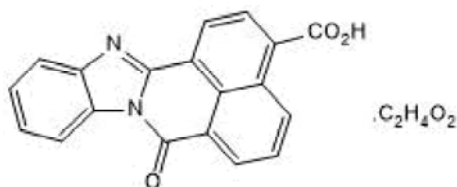
Batch Molecular Formula: C<sub>19</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>.C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>

Batch Molecular Weight: 374.35

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

100mM NaOH to 45 mM

DMSO to 10 mM with sonication

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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:**

**Tokumitsu et al** (2002) STO-609, a specific inhibitor of the Ca<sup>2+</sup>/calmodulin-dependent protein kinase kinase. *J.Biol.Chem.* **277** 15813. PMID: 11867640.

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