

## Certificate of Analysis

**Product Name:** CID 755673

**Catalog No.:** 3327

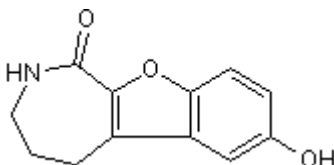
**Batch No.:** 3

CAS Number: 521937-07-5

IUPAC Name: 2,3,4,5-Tetrahydro-7-hydroxy-1*H*-benzofuro[2,3-*c*]azepin-1-one

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>12</sub>H<sub>11</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 217.22  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 5 mM with gentle warming  
**Storage:** Store at -20°C  
**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	66.35	5.1	6.45
Found	66.52	5.06	6.32

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

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**Description:**

Selective protein kinase D (PKD) inhibitor (IC<sub>50</sub> values are 0.182, 0.280, 0.227, >10, 15.3, 20.3, 40.5 and >50 μM at PKD1, PKD2, PKD3, PKC, CAK, PLK1, CAMKIIα and Akt respectively). Blocks PKD-mediated protein transport and inhibits prostate cancer cell proliferation, migration and invasion in vitro.

**Physical and Chemical Properties:**

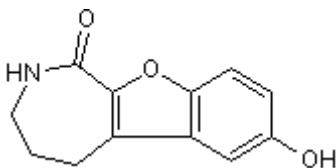
Batch Molecular Formula: C<sub>12</sub>H<sub>11</sub>NO<sub>3</sub>

Batch Molecular Weight: 217.22

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Sharlow et al** (2008) Potent and selective disruption of protein kinase D functionality by benzoxoloazepinolone. *J.Biol.Chem.* **283** 33516. PMID: 18829454.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 5 mM with gentle warming

**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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