

Certificate of Analysis

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Product Name: SC 79

Catalog No.: 4635

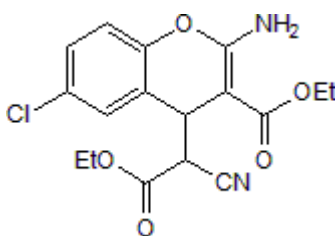
Batch No.: 1

CAS Number: 305834-79-1

IUPAC Name: 2-Amino-6-chloro- α -cyano-3-(ethoxycarbonyl)-4*H*-1-benzopyran-4-acetic acid ethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₇ClN₂O₅
Batch Molecular Weight: 364.78
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.56 (Dichloromethane:Methanol [98:2])
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.98	4.7	7.68
Found	56.13	4.79	7.48

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

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Description:

Activator of Akt; binds to the pleckstrin homology domain of Akt. Enhances Akt phosphorylation by upstream protein kinases; also enables cytosolic activation of Akt. Shown to suppress excitotoxicity-induced neuronal death in vitro and in vivo. Exhibits brain penetrance.

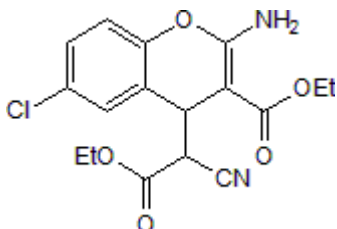
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Solubility & Usage Info:

DMSO to 100 mM

CAUTION - This product may be susceptible to decomposition when stored in solution. Therefore, we recommend that, as far as possible, solutions should be made up and used immediately.

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:

Jo *et al* (2012) Small molecule-induced cytosolic activation of protein kinase Akt rescues ischemia-elicited neuronal death. Proc.Natl.Acad.Sci.USA **109** 10581. PMID: 22689977.

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