

Certificate of Analysis

Product Name: NKY 80

Catalog No.: 5071

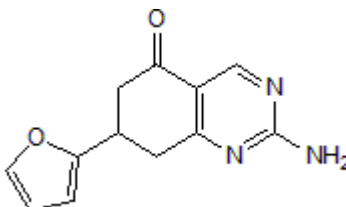
Batch No.: 1

CAS Number: 299442-43-6

IUPAC Name: 2-Amino-7-(2-furanyl)-7,8-dihydro-5(6H)-quinazolinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₂ H ₁₁ N ₃ O ₂
Batch Molecular Weight:	229.23
Physical Appearance:	Off-white solid
Solubility:	DMSO to 100 mM ethanol to 10 mM with gentle warming
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:		Carbon	Hydrogen	Nitrogen
	Theoretical	62.87	4.84	18.33
	Found	62.65	5.23	18.39

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

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IUPAC Name: 2-Amino-7-(2-furanyl)-7,8-dihydro-5(6H)-quinazolinone

Description:

Inhibitor of adenylyl cyclase (AC). Exhibits greater affinity for AC5 over AC3 and AC2 (IC₅₀ values are 8.3 μM, 132 μM and 1.7 mM respectively).

Physical and Chemical Properties:

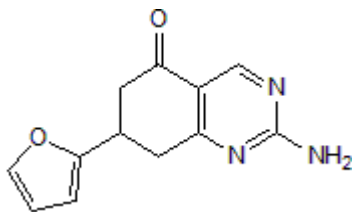
Batch Molecular Formula: C₁₂H₁₁N₃O₂

Batch Molecular Weight: 229.23

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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.

References:

Onda et al (2001) Type-specific regulation of adenylyl cyclase. Selective pharmacological stimulation and inhibition of adenylyl cyclase isoforms. *J.Biol.Chem.* **276** 47785. PMID: 11602596.

Pierre et al (2009) Capturing adenylyl cyclases as potential drug targets. *Nat.Rev.Drug Discov.* **8** 321. PMID: 19337273.

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