Certificate of Analysis

Product Name: **API-1** **Catalog No.: 3897** **Batch No.: 3**

CAS Number: 36707-00-3

IUPAC Name: 4-Amino-5,8-dihydro-5-oxo-8-β-D-ribofuranosyl-pyrido[2,3-*d*]pyrimidine-6-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{15}N_5O_6$

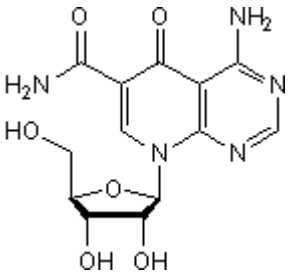
Batch Molecular Weight: 337.29

Physical Appearance: Pale pink solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Dichloromethane:Methanol [80:20])

HPLC: Shows 96.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.29	4.48	20.76
Found	46.01	4.54	20.5

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Product Information

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CAS Number: 36707-00-3

IUPAC Name: 4-Amino-5,8-dihydro-5-oxo-8-β-D-ribofuranosyl-pyrido[2,3-*d*]pyrimidine-6-carboxamide

Description:

Akt/protein kinase B (PKB) inhibitor. Binds the pleckstrin homology domain of Akt and blocks Akt membrane translocation. Inhibits EGF-induced kinase activity of Akt1, Akt2 and Akt3. Induces cell growth arrest and apoptosis in human cancer cells expressing constitutively active Akt. Displays antitumor activity in vitro and in vivo.

Physical and Chemical Properties:

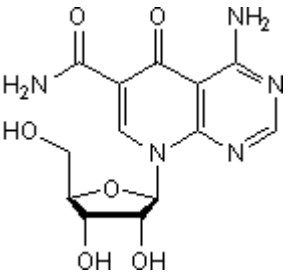
Batch Molecular Formula: $C_{13}H_{15}N_5O_6$

Batch Molecular Weight: 337.29

Physical Appearance: Pale pink solid

Minimum Purity: >96%

Batch Molecular Structure:



Storage: Store at RT

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.

References:

Kim *et al* (2010) A small molecule inhibits Akt through direct binding to Akt and preventing Akt membrane translocation. J.Biol.Chem. ***285*** 8383. PMID: 20068047.

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