

Product Name: PI 828

Catalog No.: 2814

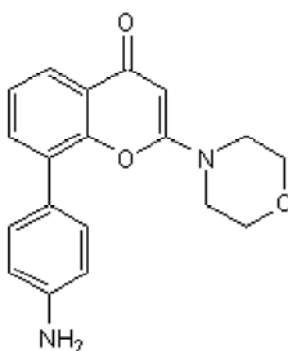
Batch No.: 3

CAS Number: 942289-87-4

IUPAC Name: 2-(4-Morpholinyl)-8-(4-aminophenyl)-4H-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₈N₂O₃
Batch Molecular Weight: 322.36
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

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IUPAC Name: 2-(4-Morpholinyl)-8-(4-aminophenyl)-4H-1-benzopyran-4-one

Description:

PI 828 is a PI 3-Kinase inhibitor (IC₅₀ values are 0.098, 0.183, 0.227 and 1.967 μM for p110β, p110α, p110δ and p110γ respectively) that displays higher potency than LY 294002 (Cat No. 1130). Can be immobilized onto a solid phase.

Physical and Chemical Properties:

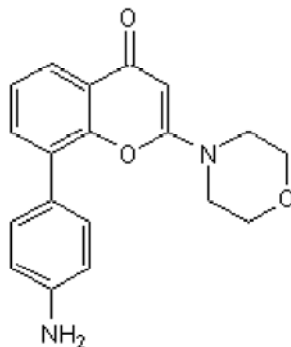
Batch Molecular Formula: C₁₉H₁₈N₂O₃

Batch Molecular Weight: 322.36

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

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:

Gharbi *et al* (2007) Exploring the specificity of the PI3K family inhibitor LY294002. *Biochem.J.* **404** 15. PMID: 17302559.

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