1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{23}H_{24}O_{8}.\frac{1}{4}H_2O

Batch Molecular Weight: 432.94

Physical Appearance: White solid

Solubility: DMSO to 50 mM

ethanol to 5 mM with gentle warming

Storage: Desiccate at -20°C

Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

\(^1H\) NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

  Theoretical 63.8 5.7
  Found 63.63 5.56
Product Name: Wortmannin
Catalog No.: 1232
Batch No.: 10

CAS Number: 19545-26-7
IUPAC Name: (1S,6bR,9aS,11R,11bR) 11-(Acetyloxy)-1,6b,7,8,9a,10,11,11b-octahydro-1-(methoxymethyl)-9a,11b-dimethyl-3H-furo[4,3-d]indeno[4,5-h]-2-benzopyran-3,6,9-trione

Description:
Potent, selective, cell-permeable and irreversible inhibitor of phosphatidylinositol 3-kinase (PI 3-kinase) (IC₅₀ = 2 - 4 nM). Also potently inhibits polo-like kinase 1 (PLK1) (IC₅₀ = 5.8 nM).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₃H₂₄O₅.¼H₂O
Batch Molecular Weight: 432.94
Physical Appearance: White solid

Storage: Desiccate at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 50 mM
ethanol to 5 mM with gentle warming
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: