

Certificate of Analysis

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Product Name: GSK 650394

Catalog No.: 3572

Batch No.: 3

CAS Number: 890842-28-1

IUPAC Name: 2-Cyclopentyl-4-(5-phenyl-1*H*-pyrrolo[2,3-*b*]pyridin-3-yl)-benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₂N₂O₂·¼H₂O

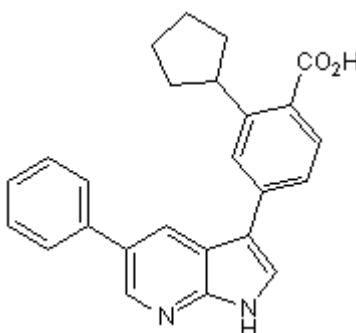
Batch Molecular Weight: 386.95

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.41 (Dichloromethane:Methanol [9:1])

HPLC: Shows >98.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 77.6 5.86 7.24

Found 77.79 5.7 7.23

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

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Description:

Serum- and glucocorticoid-regulated kinase 1 (SGK1) inhibitor (IC₅₀ values are 62 and 103 nM for SGK1 and SGK2 respectively). Displays >30-fold selectivity over Akt and other related kinases. Inhibits androgen-stimulated growth of LNCaP cells, a human prostate carcinoma cell line (IC₅₀ ~ 1 μM).

Physical and Chemical Properties:

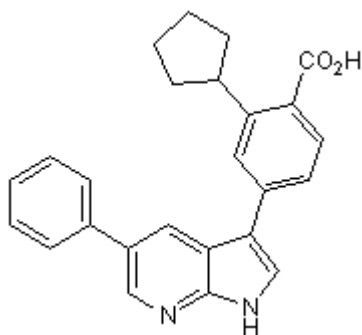
Batch Molecular Formula: C₂₅H₂₂N₂O₂ · ¼H₂O

Batch Molecular Weight: 386.95

Physical Appearance: Off White solid

Minimum Purity: >97%

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:

Sherk et al (2008) Development of a small-molecule serum- and glucocorticoid-regulated kinase-1 antagonist and its evaluation as a prostate cancer therapeutic. *Cancer Res.* **68** 7475. PMID: 18794135.

Hall et al (2012) Serum and glucocorticoid-regulated kinase 1 (SGK1) activation in breast cancer: requirement for mTORC1 activity associates with ER-alpha expression. *Breast Cancer Res. Treat* **135** 469. PMID: 22842983 .

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