

Certificate of Analysis

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Product Name: SGC CAMKK2-1

Catalog No.: 7877

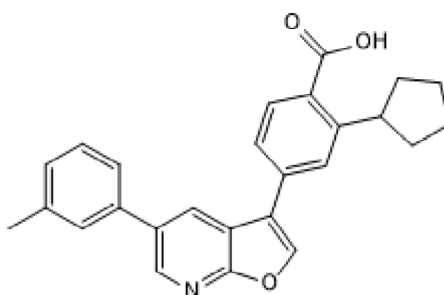
Batch No.: 1

CAS Number: 2561494-76-4

IUPAC Name: 2-Cyclopentyl-4-[5-(3-methylphenyl)furo[2,3-*b*]pyridin-3-yl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₃NO₃.
Batch Molecular Weight: 397.47
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.57	5.83	3.52
Found	77.8	5.9	3.5

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

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Description:

SGC CAMKK2-1 is a potent and selective Ca²⁺-calmodulin-dependent protein kinase kinase (CaMKK) inhibitor (CAMKK2 IC₅₀ = 30 nM). Displays selectivity toward CAMKK1 and CAMKK2 over 404 kinases in a kinome wide screen (Discoverx). SGC CAMKK2-1 inhibits AMPK phosphorylation in C4-2 prostate cancer cells (IC₅₀ = 1.6 μM).

Physical and Chemical Properties:

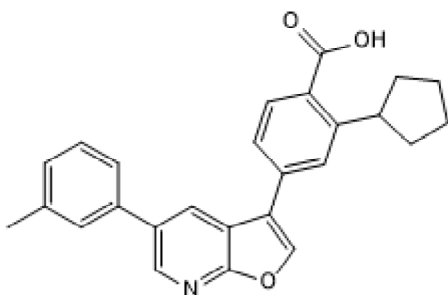
Batch Molecular Formula: C₂₆H₂₃NO₃.

Batch Molecular Weight: 397.47

Physical Appearance: Off-white solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the SGC CAMKK2-1 probe summary on the SGC website.

References:

Wells *et al* (2023) SGC-CAMKK2-1: A chemical probe for CAMKK2. *Cells* **12** 287. PMID: 36672221.

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