

Product Name: SGC CK2-1

Catalog No.: 7450

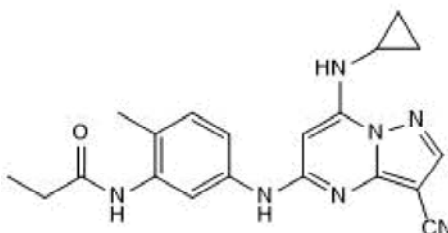
Batch No.: 1

CAS Number: 2470424-39-4

IUPAC Name: *N*-[5-[[3-Cyano-7-(cyclopropylamino)pyrazolo[1,5-*a*]pyrimidin-5-yl]amino]-2-methylphenyl]propanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₁N₇O.
Batch Molecular Weight: 375.44
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.98	5.64	26.12
Found	63.82	5.73	26.18

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

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Description:

SGC CK2-1 is a potent inhibitor of casein kinase 2 (CK2) with activity at both the CK2A2 and CK2A1 isoforms (IC₅₀ values are 2.3-16 nM and 4.2-36 nM respectively). SGC CK-1 also inhibits DYRK2 (IC₅₀ = 440 nM).

Physical and Chemical Properties:

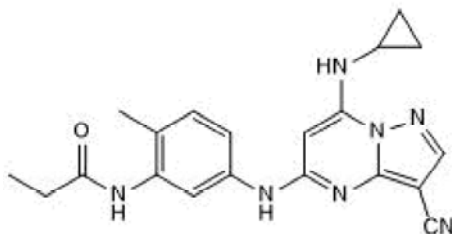
Batch Molecular Formula: C₂₀H₂₁N₇O.

Batch Molecular Weight: 375.44

Physical Appearance: White solid

Minimum Purity: ≥98%

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. 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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the SGC CK2-1 probe summary on the SGC website.

References:

Wells *et al* (2021) Development of a potent and selective chemical probe for the pleiotropic kinase CK2. *Cell Chem.Biol.* **28** 546. PMID: 33484635.

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