

Product Name: ML 281

Catalog No.: 4880

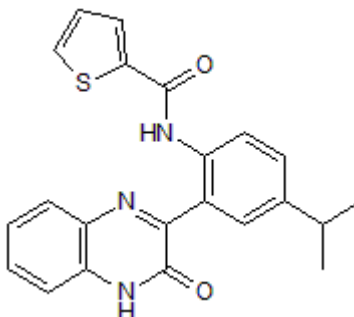
Batch No.: 1

CAS Number: 1404437-62-2

IUPAC Name: *N*-[2-(3,4-Dihydro-3-oxo-2-quinoxaliny)-4-(1-methylethyl)phenyl]-2-thiophenecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₉N₃O₂S
Batch Molecular Weight: 389.47
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 67.85 | 4.92 | 10.79 |
| Found | 67.89 | 4.89 | 10.78 |

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

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Description:

Inhibitor of the serine/threonine kinase STK33 ($IC_{50} = 14$ nM). Exhibits >700-fold selectivity for STK33 over the structurally related protein kinase A (PKA); also exhibits 550-fold selectivity over Aurora kinase B.

Physical and Chemical Properties:

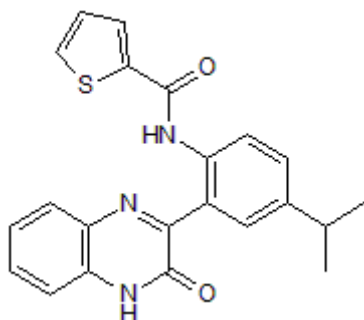
Batch Molecular Formula: $C_{22}H_{19}N_3O_2S$

Batch Molecular Weight: 389.47

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Weiw *et al* (2012) A potent and selective quinoxaline-based STK33 inhibitor does not show synthetic lethality in KRAS-dependent cells. *ACS Med.Chem.Lett.* **3** 1034. PMID: 23256033.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956