

Certificate of Analysis

Product Name: SR 7826

Catalog No.: 5626

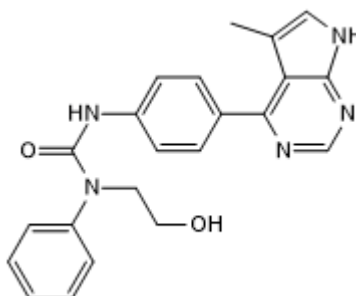
Batch No.: 1

CAS Number: 1219728-20-7

IUPAC Name: *N*-(2-Hydroxyethyl)-*N*-[4,5-methyl-7*H*-pyrrolo[2,3-*d*]pyrimidine-4-yl]phenyl]-*N*-phenylurea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₂ H ₂₁ N ₅ O ₂
Batch Molecular Weight:	387.43
Physical Appearance:	Pale yellow solid
Solubility:	DMSO to 100 mM ethanol to 10 mM with gentle warming
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.46 (Dichloromethane:Methanol [96:4])
HPLC:	Shows 98.3% purity
¹H NMR:	consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	68.2	5.46	18.08
Found	68.21	5.44	17.97

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

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Description:

Potent and selective LIMK inhibitor (IC₅₀ values are 43, 5536 and 6565 nM for LIMK1, ROCK1 and ROCK2, respectively). Inhibits cofilin phosphorylation in A7r5 cells and suppresses migration and invasion of PC-3 cells in vitro. Orally bioavailable.

Physical and Chemical Properties:

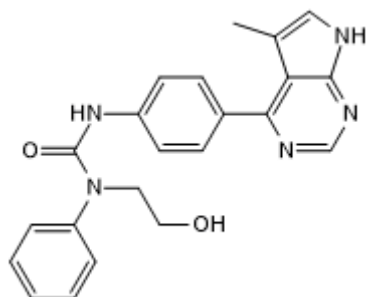
Batch Molecular Formula: C₂₂H₂₁N₅O₂

Batch Molecular Weight: 387.43

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Yin *et al* (2015) Bis-aryl urea derivatives as potent and selective LIM kinase (Limk) inhibitors. *J.Med.Chem.* **58** 1846. PMID: 25621531.

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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