

Product Name: Ribociclib

Catalog No.: 7050

Batch No.: 1

CAS Number: 1211441-98-3

IUPAC Name: 7-Cyclopentyl-*N,N*-dimethyl-2-[[5-(1-piperazinyl)-2-pyridinyl]amino]-7*H*-pyrrolo[2,3-*d*]pyrimidine-6-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₃₀N₈O.1 $\frac{3}{4}$ H₂O

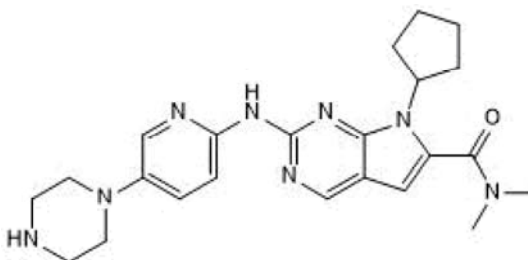
Batch Molecular Weight: 466.06

Physical Appearance: Beige solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	59.27	7.24	24.04
Found	58.87	7.22	23.73

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

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Description:

Dual cdk4/ckd6 inhibitor: induces G₁ phase cell cycle arrest and senescence in neuroblastoma cell lines (IC₅₀ = 306 nM). Delays tumor growth in vivo. Orally bioavailable.

Physical and Chemical Properties:

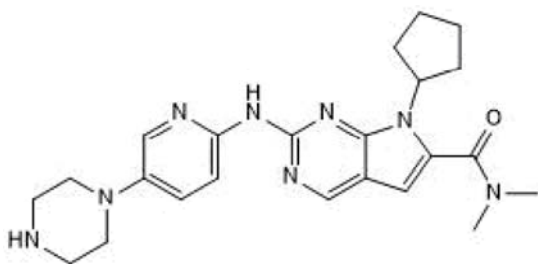
Batch Molecular Formula: C₂₃H₃₀N₈O.1 $\frac{1}{4}$ H₂O

Batch Molecular Weight: 466.06

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 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:

Rader *et al* (2013) Dual CDK4/CDK6 inhibition induces cell-cycle arrest and senescence in neuroblastoma. Clin. Cancer Res. **19** 6173. PMID: 24045179 .

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