

Product Name: Ribociclib

Catalog No.: 7050

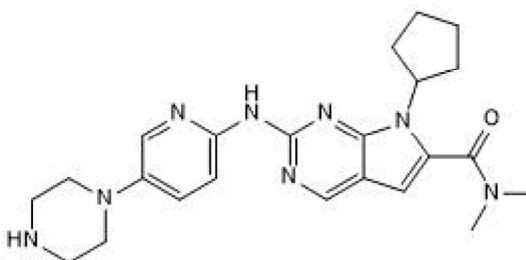
Batch No.: 2

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.
Batch Molecular Weight: 434.54
Physical Appearance: Off White solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.57	6.96	25.79
Found	63.24	6.98	25.3

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

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Description:

Ribociclib is a dual cdk4/cdk6 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:

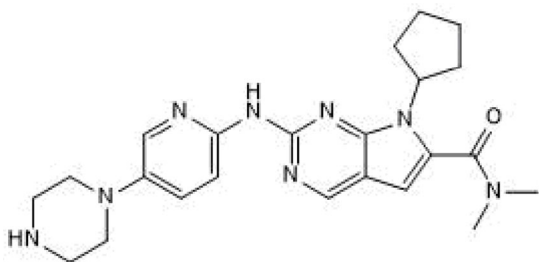
Batch Molecular Formula: C₂₃H₃₀N₈O.

Batch Molecular Weight: 434.54

Physical Appearance: Off White 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. *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.

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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