

Product Name: RP 6306

Catalog No.: 8031

Batch No.: 1

CAS Number: 2719793-90-3

IUPAC Name: (S)-2-Amino-1-(3-hydroxy-2,6-dimethylphenyl)-5,6-dimethylpyrrolo[2,3-*b*]pyridine-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₀N₄O₂·¼H₂O

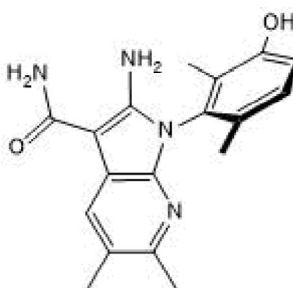
Batch Molecular Weight: 328.88

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +35.5 (Concentration = 1, Solvent = Ethanol)

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	65.74	6.28	17.04
Found	64.83	6.31	16.62

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

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

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IUPAC Name: (S)-2-Amino-1-(3-hydroxy-2,6-dimethylphenyl)-5,6-dimethylpyrrolo[2,3-*b*]pyridine-3-carboxamide

Description:

RP 6306 is a potent and selective PKMYT1 inhibitor (IC_{50} = 3.1 nM). In vivo, it inhibits CCNE1-amplified tumor cell growth in mouse xenograft models. RP 6306 is orally bioavailable.

Physical and Chemical Properties:

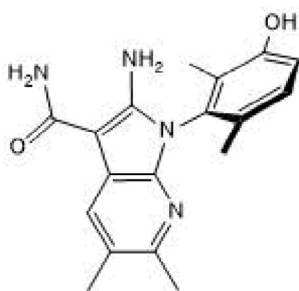
Batch Molecular Formula: $C_{18}H_{20}N_4O_2 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 328.88

Physical Appearance: Beige solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Szychowski et al (2022) Discovery of an orally bioavailable and selective PKMYT1 inhibitor, RP-6306. *J.Med.Chem.* **65** 10251. PMID: 35880755.

Gallo et al (2022) CCNE1 amplification is synthetic lethal with PKMYT1 kinase inhibition. *Nature* **604** 749. PMID: 35444283.

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North America

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