

Certificate of Analysis

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Product Name: UCB 9386

Catalog No.: 8914

Batch No.: 1

IUPAC Name: (R)-7-(Imidazo[1,2-b]pyridazin-3-yl)-3-(6-methyl-2,6-diazaspiro[3.3]heptan-2-yl)-1-(1-phenylethyl)pyrido[3,4-b]pyrazin-2(1H)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₆N₈O.½H₂O

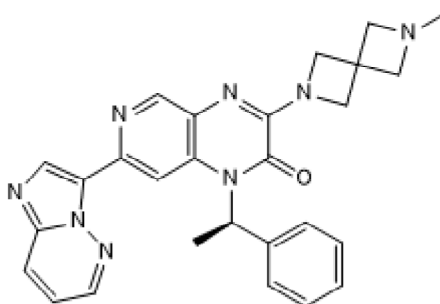
Batch Molecular Weight: 483.06

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

Chiral HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	67.13	5.53	23.2
Found	66.14	5.57	22.98

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

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Description:

UCB 9386 is a potent and selective central nervous system penetrant NUA1 (NUAK family SnF1-like kinase-1) inhibitor (pIC₅₀= 10.1). Kinome selectivity measured in the diversity panel shows that only Jak2 and Nuak2 are inhibited more than 50% at 10 nM. In vivo, UCB 9386 exhibits high brain penetrance.

Physical and Chemical Properties:

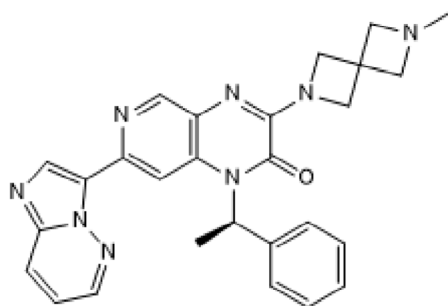
Batch Molecular Formula: C₂₇H₂₆N₈O.½H₂O

Batch Molecular Weight: 483.06

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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°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:

Poullennec et al (2024) Discovery of UCB9386: a potent, selective, and brain-penetrant Nuak1 inhibitor suitable for *in vivo* pharmacological studies. J Med Chem **67** 20879. PMID: 39588908.

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