

**Product Name:** GSK J2

**Catalog No.:** 4688

**Batch No.:** 1

**CAS Number:** 1394854-52-4

**IUPAC Name:** *N*-[2-(3-Pyridinyl)-6-(1,2,4,5-tetrahydro-3*H*-3-benzazepin-3-yl)-4-pyrimidinyl]-β-alanine

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>23</sub>N<sub>5</sub>O<sub>2</sub> · ½H<sub>2</sub>O

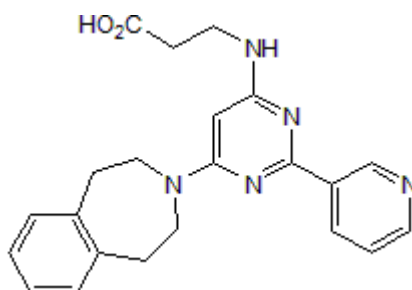
**Batch Molecular Weight:** 398.46

**Physical Appearance:** Off-white powder

**Solubility:** DMSO to 100 mM  
1eq. HCl to 50 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.19 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows 99.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.32	6.07	17.58
Found	66.02	5.85	17.38

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**Description:**

Inactive control of GSK J1 (Cat No.4593) ( $IC_{50} > 100 \mu M$  for inhibition of JMJD3/UTX). Cell permeable ester derivative, GSK J5 (Cat. No. 4689), also available.

**Physical and Chemical Properties:**

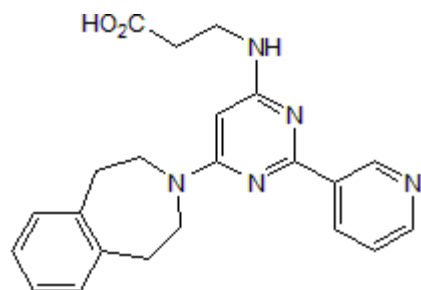
Batch Molecular Formula:  $C_{22}H_{23}N_5O_2 \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 398.46

Physical Appearance: Off-white powder

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

DMSO to 100 mM

1eq. HCl to 50 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:**

**Kruidenier et al** (2012) A selective jumonji H3K27 demethylase inhibitor modulates the proinflammatory macrophage response. *Nature* **488** (7411) 404. PMID: 22842901.

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