

**Product Name:** JQEZ5

**Catalog No.:** 6153

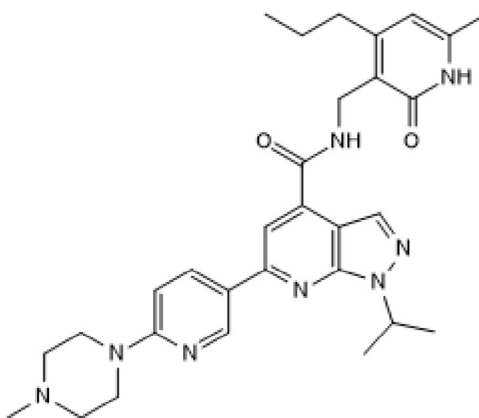
**Batch No.:** 1

CAS Number: 1913252-04-6

IUPAC Name: *N*-[(1,2-Dihydro-6-methyl-2-oxo-4-propyl-3-pyridinyl)methyl]-1-(1-methylethyl)-6-[6-(4-methyl-1-piperazinyl)-3-pyridinyl]-1*H*-pyrazolo[3,4-*b*]pyridine-4-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>30</sub> H <sub>38</sub> N <sub>8</sub> O <sub>2</sub> · <sup>3</sup> / <sub>4</sub> H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	556.2
<b>Physical Appearance:</b>	Off-white solid
<b>Solubility:</b>	DMSO to 20 mM 1eq. HCl to 10 mM with gentle warming
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 98.0% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	64.78	7.16	20.15
Found	65.12	7	19.85

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

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**Description:**

JQEZ5 is a potent and selective SAM-competitive EZH2 lysine methyltransferase inhibitor (IC<sub>50</sub> = 11 nM). Selectively binds EZH2 over a panel of 22 methyltransferases. Reduces global level of the PRC2-associated mark H3K27me3 in K562 cells. Suppresses cell growth in CML cells. Inhibits colony formation of primary human CD34<sup>+</sup> CML stem/ progenitor cells. Antitumor effects in vivo.

**Physical and Chemical Properties:**

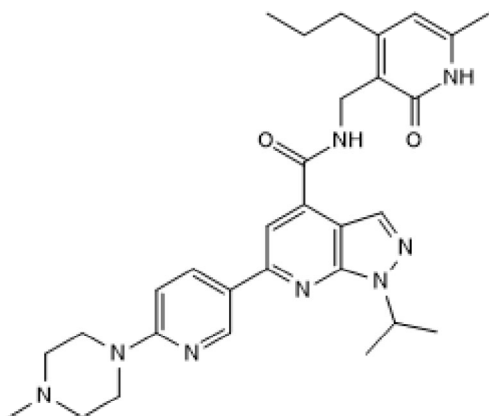
Batch Molecular Formula: C<sub>30</sub>H<sub>38</sub>N<sub>8</sub>O<sub>2</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 556.2

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Frankel et al** (2016) Developing EZH2-targeted therapy for lung cancer. *Cancer Discov.* **6** 949. PMID: 27587466 .

**Xie et al** (2016) Chronic myelogenous leukemia- initiating cells require polycomb group protein EZH2. *Send to* **6** 1237. PMID: 27630126 .

**Zhang et al** (2016) Oncogenic deregulation of EZH2 as an opportunity for targeted therapy in lung cancer. *Cancer Discov.* **6** 1006. PMID: 27312177.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 20 mM

1eq. HCl to 10 mM with gentle warming

**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.

**Licensing Information:**

Sold under license from Dana-Farber Cancer Institute.

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