

Product Name: ZLD 1039

Catalog No.: 5847

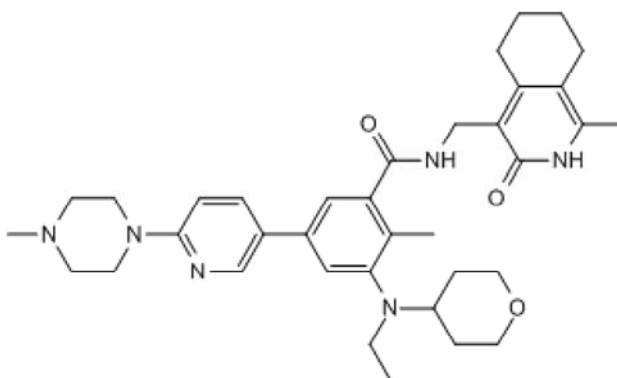
Batch No.: 1

CAS Number: 1826865-46-6

IUPAC Name: 3-[Ethyl(tetrahydro-2H-pyran-4-yl)amino]-N-[(2,3,5,6,7,8-hexahydro-1-methyl-3-oxo-4-isoquinolinyl)methyl]-2-methyl-5-[6-(4-methyl-1-piperazinyl)-3-pyridinyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₆H₄₈N₆O₃·½H₂O
Batch Molecular Weight: 621.81
Physical Appearance: White solid
Solubility: DMSO to 20 mM with gentle warming
 ethanol to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.54	7.94	13.52
Found	69.46	7.62	13.5

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

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Description:

Potent and selective EZH2 inhibitor (IC₅₀ = 5.6 nM). Displays selectivity against a panel of HMTs (inhibition less than 30% at 16 μM). Blocks H3K27 methylation in breast cancer cell lines. Induces tumor regression and metastasis in breast cancer xenograft-bearing mice. Reactivates silenced tumor suppressors in vivo. Orally bioavailable.

Physical and Chemical Properties:

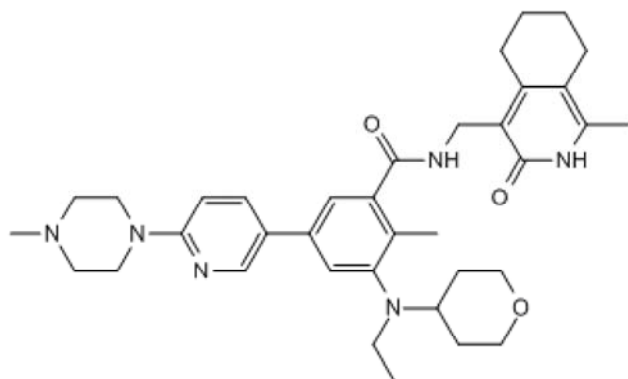
Batch Molecular Formula: C₃₆H₄₈N₆O₃·½H₂O

Batch Molecular Weight: 621.81

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming
ethanol to 20 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. 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:

Song et al (2016) Corrigendum: Selective inhibition of EZH2 by ZLD1039 blocks H3K27methylation and leads to potent anti-tumor activity in breast cancer. *Sci.Rep.* **29** 24893. PMID: 27128979.

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