

Product Name: B 109

Catalog No.: 6009

Batch No.: 2

CAS Number: 1607803-67-7

IUPAC Name: 7-(1,3-Dioxan-2-yl)-1,2,3,4-tetrahydro-8-hydroxy-5H-[1]benzopyrano[3,4-c]pyridin-5-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₇NO₅·¼H₂O

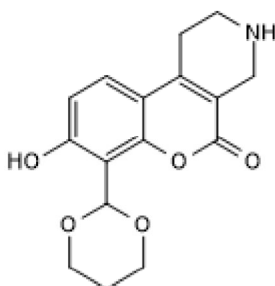
Batch Molecular Weight: 307.81

Physical Appearance: Beige solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.11 (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.43	5.73	4.55
Found	62.38	5.71	4.49

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

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Description:

B 109 is an IRE-1 RNase inhibitor (IC₅₀ = 1.23 μM). Inhibits IRE-1/XBP1 pathway. Cell permeable. Inhibits growth of human chronic lymphocytic leukemia (CLL) cells in vitro and promotes CLL regression in a mouse model.

Physical and Chemical Properties:

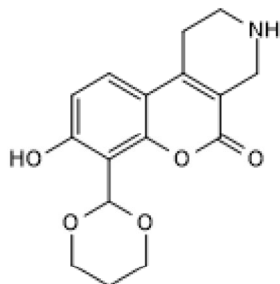
Batch Molecular Formula: C₁₆H₁₇NO₅·¼H₂O

Batch Molecular Weight: 307.81

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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. *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:

Tang *et al* (2014) Inhibition of ER stress-associated IRE-1/XBP-1 pathway reduces leukemic cell survival. *J.Clin.Invest.* **124** 2585. PMID: 24812669.

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