

Certificate of Analysis

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Product Name: MIM1

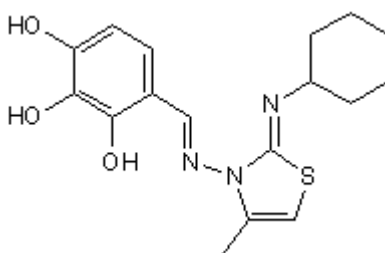
Catalog No.: 4762

Batch No.: 1

IUPAC Name: 4-(*E*)-[[(2*Z*)-2-cyclohexylimino]-4-methyl-1,3-thiazol-3(2*H*)-yl]imino]methyl]benzene-1,2,3-triol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₁N₃O₃S
Batch Molecular Weight: 347.43
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	58.77	6.09	12.09
Found	58.49	6.07	12.01

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

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Description:

Inhibitor of Mcl-1; selectively targets the BH3-binding pocket. Induces caspase-3/7 activation and cell death in Mcl-1-dependent leukemia cells. Also blocks Mcl-1-mediated suppression of tBID-induced Bax activation in vitro.

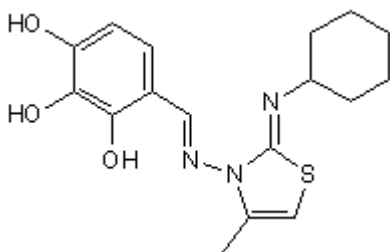
Physical and Chemical Properties:

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Batch Molecular Weight: 347.43

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Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Cohen et al (2012) A competitive stapled peptide screen identifies a selective small molecule that overcomes MCL-1-dependent leukemia cell survival. *Chem.Biol.* **19** 1175. PMID: 22999885.

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