

**Product Name:** MIM1

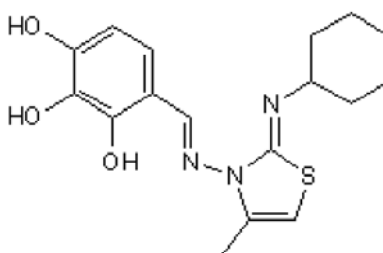
**Catalog No.:** 4762

**Batch No.:** 1

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub>S  
**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**

**<sup>1</sup>H 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. Inhibits Mcl-1 indirectly by induction of the proapoptotic Mcl-1 ligand NOXA via the unfolded protein response (UPR) pathway. Sensitizes leukemia cells to the Bcl-2 inhibitor venetoclax (ABT-199). 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.

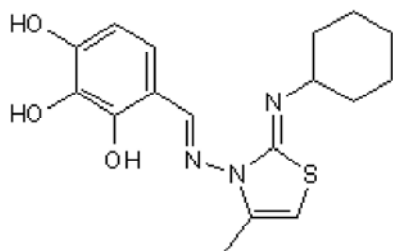
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**References:**

**Mallick et al (2019)** Confounding off-target effects of BH3 mimetics at commonly used concentrations: MIM1, UMI-77, and A-1210477. *Cell Death Dis.* **10** 185. PMID: 30796196.

**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.

**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.

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