

**Product Name:** Bioymifi

**Catalog No.:** 5372

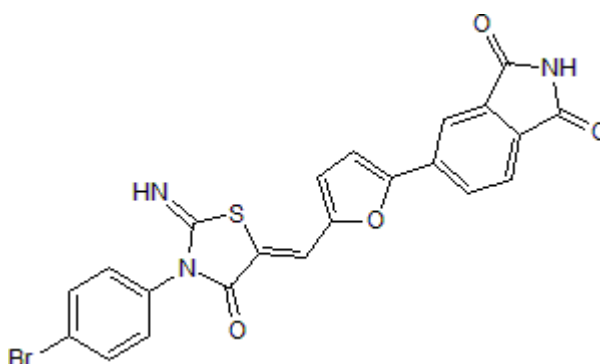
**Batch No.:** 1

CAS Number: 1420071-30-2

IUPAC Name: 5-[5-[[[(5Z)-3-(4-Bromophenyl)-2-imino-4-oxo-5-thiazolidinylidene]methyl]-2-furanyl]-1H-isoindole-1,3(2H)-dione

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>22</sub> H <sub>12</sub> BrN <sub>3</sub> O <sub>4</sub> S.H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	512.34
<b>Physical Appearance:</b>	Orange solid
<b>Solubility:</b>	DMSO to 1 mM with gentle warming
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows >97% 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	51.58	2.75	8.2
Found	51.78	2.65	8.07

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

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**Description:**

DR5 (TRAIL receptor) agonist. Directly binds extracellular domain of DR5 ( $K_d = 1.2 \mu\text{M}$ ) and induces the formation of DR5 aggregates. Induces apoptosis of glioblastoma cells.

**Physical and Chemical Properties:**

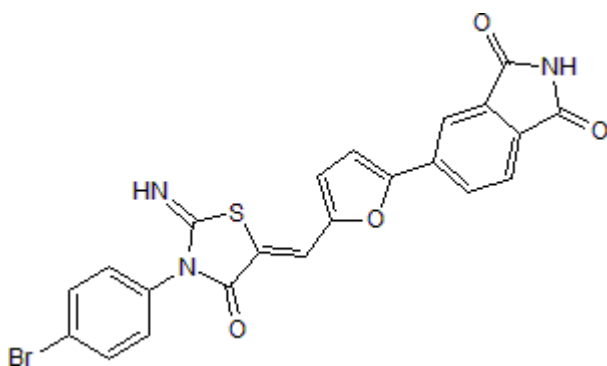
Batch Molecular Formula:  $\text{C}_{22}\text{H}_{12}\text{BrN}_3\text{O}_4\text{S}\cdot\text{H}_2\text{O}$

Batch Molecular Weight: 512.34

Physical Appearance: Orange solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 1 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:**

**Wang et al** (2013) Small-molecule activation of the TRAIL receptor DR5 in human cancer cells. *Nat.Chem.Biol.* **9** 84. PMID: 23292651.

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