

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** BAM 7

**Catalog No.:** 4810

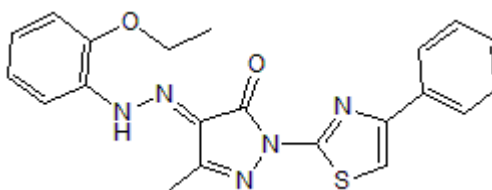
**Batch No.:** 1

**CAS Number:** 331244-89-4

**IUPAC Name:** 3-Methyl-1-(4-phenyl-2-thiazolyl)-1*H*-pyrazole-4,5-dione 4-[2-(2-Ethoxyphenyl)hydrazone]

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>19</sub>N<sub>5</sub>O<sub>2</sub>S  
**Batch Molecular Weight:** 405.47  
**Physical Appearance:** Brown solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.21	4.72	17.27
Found	62.17	4.75	17.17

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

## Product Information

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### Description:

Bax activator ( $EC_{50} = 3.3 \mu M$ ); binds at the BH3-binding site. Selective for Bax over other antiapoptotic and proapoptotic proteins. Triggers Bax oligomerization in vitro; induces Bax-mediated apoptosis in mouse embryonic fibroblasts.

### Physical and Chemical Properties:

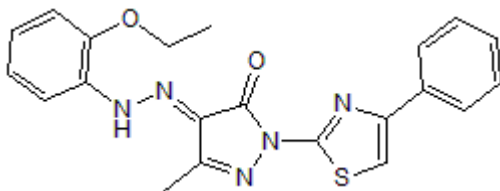
Batch Molecular Formula:  $C_{21}H_{19}N_5O_2S$

Batch Molecular Weight: 405.47

Physical Appearance: Brown solid

**Minimum Purity:** >99%

### Batch Molecular Structure:



**Storage:** Store at +4°C

### Solubility & Usage Info:

DMSO to 10 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:

**Gavathiotis et al** (2012) Direct and selective small-molecule activation of proapoptotic BAX. *Nat.Chem.Biol.* **8** 639. PMID: 22634637.

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**bio-techne.com**

[info@bio-techne.com](mailto:info@bio-techne.com)

[techsupport@bio-techne.com](mailto:techsupport@bio-techne.com)

**North America**

Tel: (800) 343 7475

**China**

[info.cn@bio-techne.com](mailto:info.cn@bio-techne.com)

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956