

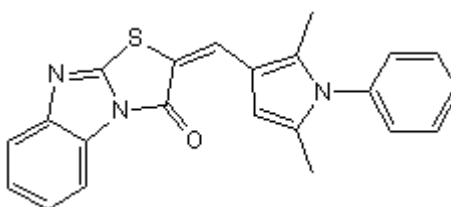
## Certificate of Analysis

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**Product Name:** ITX 3 **Catalog No.:** 3792 **Batch No.:** 1  
**CAS Number:** 347323-96-0  
**IUPAC Name:** (E)-2-[(2,5-Dimethyl-1-phenyl-1H-pyrrol-3-yl)methylene]thiazolo[3,2-a]benzimidazol-3(2H)-one

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>17</sub>N<sub>3</sub>OS  
**Batch Molecular Weight:** 371.45  
**Physical Appearance:** gold solid  
**Solubility:** DMSO to 5 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 71.14  | 4.61     | 11.31    |
| Found       | 71.44  | 4.63     | 11.37    |

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

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**Description:**

Selective inhibitor of TrioN RhoGEF activity. Inhibits TrioN-mediated GTP exchange on RhoG and Rac1, formation of TrioN-induced cellular structures in REF52 fibroblasts and NGF-mediated neurite outgrowth in PC12 cells in vitro.

**Physical and Chemical Properties:**

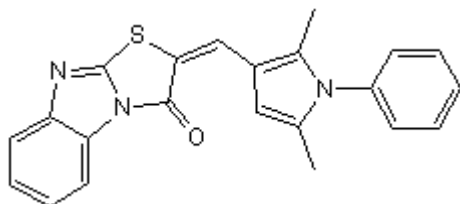
Batch Molecular Formula: C<sub>22</sub>H<sub>17</sub>N<sub>3</sub>OS

Batch Molecular Weight: 371.45

Physical Appearance: gold solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Bouquier et al** (2009) A cell active chemical GEF inhibitor selectively targets the Trio/RhoG/Rac1 signaling pathway. *Chem.Biol.* **16** 657. PMID: 19549603.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 5 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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