

## Certificate of Analysis

www.tocris.com

**Product Name:** TC-I 2000

**Catalog No.:** 4632

**Batch No.:** 1

CAS Number: 1159996-20-9

IUPAC Name: *N*-(4-Fluorophenyl)-3,4-dihydro-1-[4-(trifluoromethyl)phenyl]-2(1*H*)-isoquinolinecarboxamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>18</sub>F<sub>4</sub>N<sub>2</sub>O·¼H<sub>2</sub>O

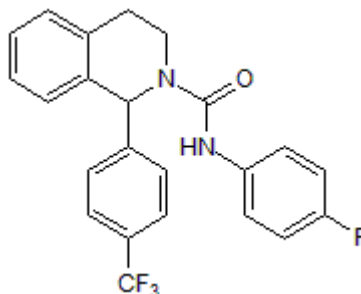
**Batch Molecular Weight:** 418.9

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 20 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.77 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

**HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.95	4.45	6.69
Found	66.14	4.85	6.68

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

**Product Name:** TC-I 2000

**Catalog No.:** 4632

**Batch No.:** 1

CAS Number: 1159996-20-9

IUPAC Name: *N*-(4-Fluorophenyl)-3,4-dihydro-1-[4-(trifluoromethyl)phenyl]-2(1*H*)-isoquinolinecarboxamide

**Description:**

TRPM8 channel blocker. Inhibits icilin-induced TRPM8 channel activation in rTRPM8-expressing CHO cells ( $IC_{50} = 53$  nM).

**Physical and Chemical Properties:**

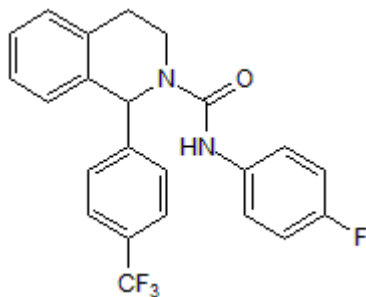
Batch Molecular Formula:  $C_{23}H_{18}F_4N_2O \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 418.9

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**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:**

**Tamayo et al** (2012) Fused piperidines as a novel class of potent and orally available transient receptor potential melastatin type 8 (TRPM8) antagonists. *J.Med.Chem.* **55** 1593. PMID: 22329507.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

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

Tel: +1 612 379 2956