

**Product Name:** WIC1

**Catalog No.:** 7580

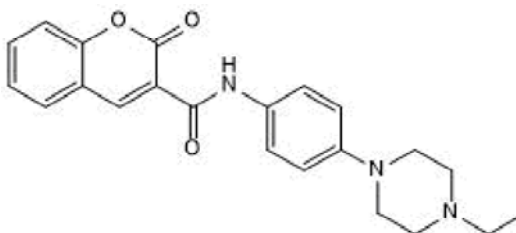
**Batch No.:** 1

CAS Number: 943083-58-7

IUPAC Name: *N*-[4-(4-Ethyl-1-piperazinyl)phenyl]-2-oxo-2*H*-1-benzopyran-3-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>22</sub> H <sub>23</sub> N <sub>3</sub> O <sub>3</sub> .
<b>Batch Molecular Weight:</b>	377.44
<b>Physical Appearance:</b>	Orange solid
<b>Solubility:</b>	DMSO to 2 mM with gentle warming
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.7% 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	70.01	6.14	11.13
Found	69.57	6.08	11.06

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

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**Description:**

WIC1 is an inhibitor of the canonical Wnt/ $\beta$ -catenin signaling pathway. In vitro, it reduces ABSC (Airway Basal Stem Cell) proliferation and induces ciliated epithelial cell differentiation, in a model of squamous lung cancer. WIC1 also represses the phosphorylation of  $\beta$ -catenin<sup>Y489</sup> and Tp63 expression.

**Physical and Chemical Properties:**

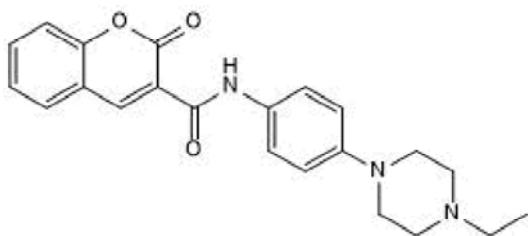
Batch Molecular Formula: C<sub>22</sub>H<sub>23</sub>N<sub>3</sub>O<sub>3</sub>.

Batch Molecular Weight: 377.44

Physical Appearance: Orange solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**References:**

**Aros et al** (2020) High-throughput drug screening identifies a potent Wnt inhibitor that promotes airway basal stem cell homeostasis. *Cell Rep.* **30** 2055. PMID: 32075752.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 2 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.

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