

**Product Name:** TC-G 1005

**Catalog No.:** 5129

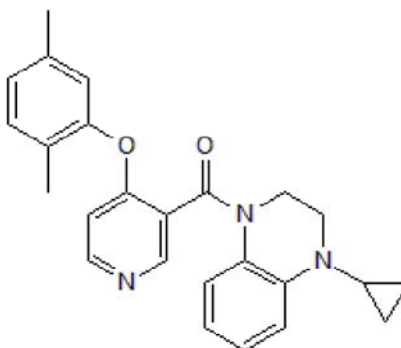
**Batch No.:** 3

CAS Number: 1415407-60-1

IUPAC Name: (4-Cyclopropyl-3,4-dihydro-1(2H)-quinoxaliny)[4-(2,5-dimethylphenoxy)-3-pyridinyl]methanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>25</sub>H<sub>25</sub>N<sub>3</sub>O<sub>2</sub>.  
**Batch Molecular Weight:** 399.48  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at -20°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	75.16	6.31	10.52
Found	75.06	6.35	10.61

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

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**Description:**

TC-G 1005 is a potent and selective GPBA agonist (EC<sub>50</sub> values are 0.72 nM and 6.2 nM for hTGR5 and mTGR5, respectively). TC-G 1005 is selective for TGR5 over FXR (farnesoid X receptor). TC-G 1005 increases plasma GLP-1 levels and reduces blood glucose in mice. Orally bioavailable.

**Physical and Chemical Properties:**

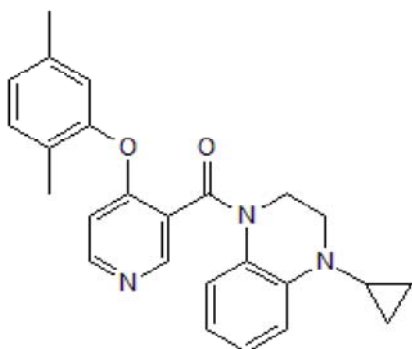
Batch Molecular Formula: C<sub>25</sub>H<sub>25</sub>N<sub>3</sub>O<sub>2</sub>.

Batch Molecular Weight: 399.48

Physical Appearance: Beige solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 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:**

**Urso et al** (2020) Bile acids inhibit cholinergic constriction in proximal and peripheral airways from humans and rodents. *Am.J.Physiol.Lung Cell.Mol.Physiol.* **318** L264. PMID: 31800261.

**Duan et al** (2012) Design, synthesis, and antidiabetic activity of 4-phenoxy nicotinamide and 4-phenoxy pyrimidine-5-carboxamide derivatives as potent and orally efficacious TGR5 agonists. *J.Med.Chem.* **55** 10475. PMID: 23148522.

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