

## Certificate of Analysis

**Product Name:** TC-O 9311

**Catalog No.:** 4255

**Batch No.:** 1

CAS Number: 444932-31-4

IUPAC Name: 3,5-Dimethoxybenzoic acid 2-[(1-naphthalenylamino)carbonyl]hydrazide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{20}H_{19}N_3O_4 \cdot \frac{3}{4}H_2O$

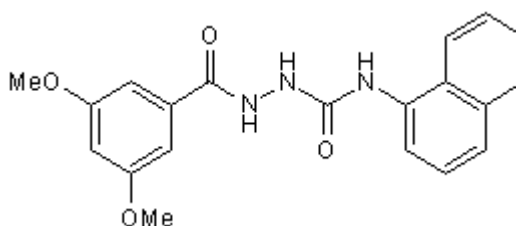
**Batch Molecular Weight:** 378.89

**Physical Appearance:** White solid

**Solubility:** DMSO to 50 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.4% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.4	5.45	11.09
Found	63.59	5.36	11.25

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**Description:**

Potent GPR139 agonist ( $EC_{50} = 39$  nM in CHO-K1 cells expressing human GPR139). Displays no activity against a range of 90 diverse targets.

**Physical and Chemical Properties:**

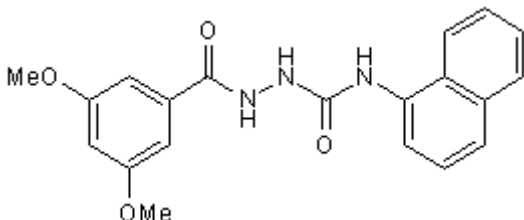
Batch Molecular Formula:  $C_{20}H_{19}N_3O_4 \cdot \frac{3}{4}H_2O$

Batch Molecular Weight: 378.89

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 50 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:**

Shi *et al* (2011) Discovery and SAR of a series of agonists at orphan G protein-coupled receptor 139. *ACS Med.Chem.Lett.* **2** 303.

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