

**Product Name:** VCP 171

**Catalog No.:** 6261

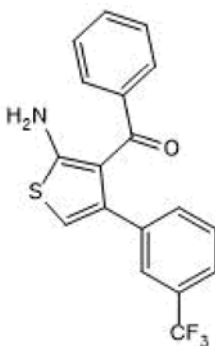
**Batch No.:** 1

CAS Number: 1018830-99-3

IUPAC Name: [2-Amino-4-[3-(trifluoromethyl)phenyl]-3-thienyl]phenylmethanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>12</sub>F<sub>3</sub>NOS.  
**Batch Molecular Weight:** 347.35  
**Physical Appearance:** Pale yellow 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	62.24	3.48	4.03
Found	61.86	3.24	3.98

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

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**Description:**

VCP 171 is an adenosine A<sub>1</sub> receptor positive allosteric modulator (PAM) (pK<sub>B</sub> = 5.65, binding cooperativity with NECA 0.68). In absence of orthosteric agonist, VCP171 behaves as an allosteric partial agonist, inhibiting cAMP activity. Inhibits AMPA receptor-mediated evoked excitatory postsynaptic current (eEPSC) amplitude in lamina I and II neurons in a rat partial nerve-injury model of neuropathic pain.

**Physical and Chemical Properties:**

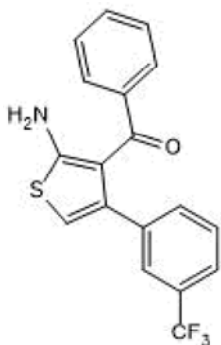
Batch Molecular Formula: C<sub>18</sub>H<sub>12</sub>F<sub>3</sub>NOS.

Batch Molecular Weight: 347.35

Physical Appearance: Pale yellow 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:**

**Christopoulos et al** (2016) Role of the second extracellular loop of the adenosine A<sub>1</sub> receptor on allosteric modulator binding, signaling, and cooperativity. *Mol.Pharmacol.* **90** 715. PMID: 27683013.

**Imlach et al** (2015) A positive allosteric modulator of the adenosine A<sub>1</sub> receptor selectively inhibits primary afferent synaptic transmission in a neuropathic pain model. *Mol.Pharmacol.* **88** 460. PMID: 26104547.

**Aurelio et al** (2008) 5-Substituted 2-aminothiophenes as A<sub>1</sub> adenosine receptor allosteric enhancers. *Bioorg.Med.Chem.* **16** 1319. PMID: 17980606.

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