

Certificate of Analysis

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Product Name: VCP 171

Catalog No.: 6261

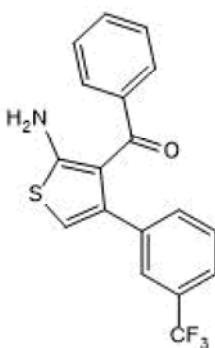
Batch No.: 1

CAS Number: 1018830-99-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular 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
¹H 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:

Adenosine A₁ receptor positive allosteric modulator (PAM) (pK_B = 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.

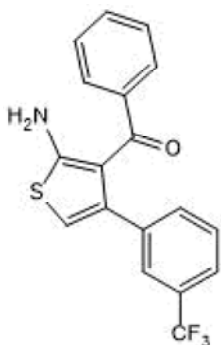
Physical and Chemical Properties:

Batch Molecular 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 A₁ 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 A₁ 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 A₁ adenosine receptor allosteric enhancers. *Bioorg.Med.Chem.* **16** 1319. PMID: 17980606.

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