



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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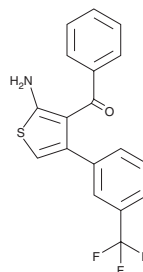
# PRODUCT INFORMATION



## VCP171

Item No. 30309

**CAS Registry No.:** 1018830-99-3  
**Formal Name:** [2-amino-4-[3-(trifluoromethyl)phenyl]-3-thienyl]phenyl-methanone  
**MF:** C<sub>18</sub>H<sub>12</sub>F<sub>3</sub>NOS  
**FW:** 347.4  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 210, 241 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

VCP171 is supplied as a crystalline solid. A stock solution may be made by dissolving the VCP171 in the solvent of choice, which should be purged with an inert gas. VCP171 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of VCP171 in ethanol is approximately 10 mg/ml and approximately 30 mg/ml in DMSO and DMF.

VCP171 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, VCP171 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. VCP171 has a solubility of approximately 0.14 mg/ml in a 1:6 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

VCP171 is a positive allosteric modulator of adenosine A<sub>1</sub> receptors (EC<sub>50</sub> = 15.8 μM in a kinetic assay measuring agonist dissociation).<sup>1</sup> It reduces AMPA receptor-mediated evoked excitatory postsynaptic currents (eEPSCs) in lamina I and lamina II neurons in a rat model of neuropathic pain (EC<sub>50</sub>s = 1.995 and 0.251 μM, respectively) to a greater extent than in sham control animals (EC<sub>50</sub>s = 2.512 and 0.631 μM, respectively).<sup>2</sup>

### References

1. Aurelio, L., Figler, H., Flynn, B.L., *et al.* 5-Substituted 2-aminothiophenes as A<sub>1</sub> adenosine receptor allosteric enhancers. *Bioorg. Med. Chem.* **16**(3), 1319-1327 (2008).
2. Imlach, W.L., Bhola, R.F., May, L.T., *et al.* A positive allosteric modulator of the adenosine A<sub>1</sub> receptor selectively inhibits primary afferent synaptic transmission in a neuropathic pain model. *Mol. Pharm.* **88**(3), 460-468 (2015).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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