



# SZABO SCANDIC

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## 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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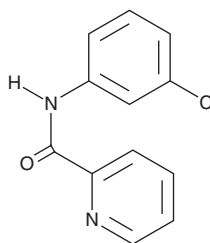
# PRODUCT INFORMATION



VU0364770

Item No. 22927

**CAS Registry No.:** 61350-00-3  
**Formal Name:** N-(3-chlorophenyl)-2-pyridinecarboxamide  
**MF:** C<sub>12</sub>H<sub>9</sub>ClN<sub>2</sub>O  
**FW:** 232.7  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 219, 277 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

VU0364770 is supplied as a crystalline solid. A stock solution may be made by dissolving the VU0364770 in the solvent of choice, which should be purged with an inert gas. VU0364770 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of VU0364770 in these solvents is approximately 5, 25, and 30 mg/ml, respectively.

VU0364770 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, VU0364770 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. VU0364770 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

VU0364770 is a positive allosteric modulator of metabotropic glutamate receptor 4 (mGluR4; EC<sub>50</sub> = 1.1 μM in a calcium mobilization assay).<sup>1</sup> It is also a positive allosteric modulator of mGluR6 (EC<sub>50</sub> = 6.8 μM) and an antagonist of mGluR5 (IC<sub>50</sub> = 17.9 μM). VU0364770 binds to monoamine oxidase A (MAO-A) and MAO-B (K<sub>i</sub>s = 8.5 and 7.2 μM, respectively), as well as the human norepinephrine transporter in a panel of 68 receptors, ion channels, and transporters at 10 μM. It decreases haloperidol-induced catalepsy and reduces increases in the number of premature reactions in response to a light cue, indicating improved attentional control, in a 6-hydroxydopamine (6-OHDA; Item No. 25330) rat model of Parkinson's disease when administered at a dose of 56.6 mg/kg.

## References

1. Jones, C.K., Bubser, M., Thompson, A.D., *et al.* The metabotropic glutamate receptor 4-positive allosteric modulator VU0364770 produces efficacy alone and in combination with L-DOPA or an adenosine 2A antagonist in preclinical rodent models of Parkinson's disease. *J. Pharmacol. Exp. Ther.* **340(2)**, 404-421 (2012).

### 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.

### WARRANTY AND LIMITATION OF REMEDY

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