



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

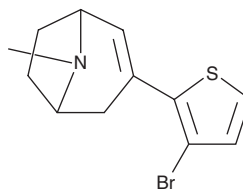
# PRODUCT INFORMATION



**NS 3861**

Item No. 37406

**CAS Registry No.:** 216853-59-7  
**Formal Name:** 3-(3-bromo-2-thienyl)-8-methyl-8-azabicyclo[3.2.1]oct-2-ene  
**MF:** C<sub>12</sub>H<sub>14</sub>BrNS  
**FW:** 284.2  
**Purity:** ≥98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years



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

## Laboratory Procedures

NS 3861 is supplied as a solid. A stock solution may be made by dissolving the NS 3861 in the solvent of choice, which should be purged with an inert gas. NS 3861 is soluble in methanol, ethanol, and DMSO.

## Description

NS 3861 is a neuronal nicotinic acetylcholine receptor (nAChR) agonist.<sup>1</sup> It induces inward currents in patch-clamp assays using *X. laevis* oocytes expressing recombinant human  $\alpha 3\beta 2$ - or  $\alpha 3\beta 4$  subunit-containing nAChR receptors ( $EC_{50}$ s = 1.6 and 1  $\mu$ M, respectively). *In vivo*, NS 3861 (0.1 mg/kg) increases the number of fecal pellets expelled in mice exposed to long-term, but not short-term, morphine injections.<sup>2</sup>

## References

1. Harpsøe, K., Hald, H., Timmermann, D.B., *et al.* Molecular determinants of subtype-selective efficacies of cytosine and the novel compound NS3861 at heteromeric nicotinic acetylcholine receptors. *J. Biol. Chem.* **288**(4), 2559-2570 (2013).
2. Gade, A.R., Kang, M., Khan, F., *et al.* Enhanced sensitivity of  $\alpha 3\beta 4$  nicotinic receptors in enteric neurons after long-term morphine: Implication for opioid-induced constipation. *J. Pharmacol. Exp. Ther.* **357**(3), 520-528 (2016).

### 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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## CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897

[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM