



# 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 Handels GmbH

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



## M8-B (hydrochloride)

Item No. 21646

CAS Registry No.: 883976-12-3

Formal Name: N-(2-aminoethyl)-N-[[3-methoxy-4-(phenylmethoxy)phenyl]methyl]-2-thiophenecarboxamide, monohydrochloride

MF:  $C_{22}H_{24}N_2O_3S \cdot HCl$

FW: 433.0

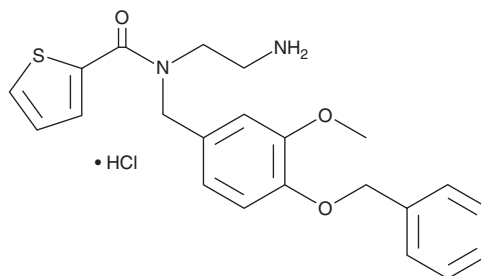
Purity:  $\geq 98\%$

UV/Vis.:  $\lambda_{max}$ : 235, 276 nm

Supplied as: A crystalline solid

Storage:  $-20^{\circ}C$

Stability:  $\geq 4$  years



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

### Laboratory Procedures

M8-B (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the M8-B (hydrochloride) in the solvent of choice, which should be purged with an inert gas. M8-B (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of M8-B (hydrochloride) in these solvents is approximately 15 and 10 mg/ml, respectively.

M8-B (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, M8-B (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. M8-B (hydrochloride) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

M8-B is an antagonist of transient receptor potential melastatin 8 (TRPM8) that blocks activation by cold, icilin (Item No. 10137), or menthol *in vitro* ( $IC_{50}s = 7.8, 26.9, \text{ and } 64.3 \text{ nM}$ , respectively).<sup>1</sup> It displays no effect at other TRP channels. M8-B decreases deep body temperature in wild-type mice and rats but has no effect on body temperature in TRPM8 KO mice.<sup>1</sup>

### Reference

1. Almeida, M.C., Hew-Butler, T., Soriano, R.N., *et al.* Pharmacological blockade of the cold receptor TRPM8 attenuates autonomic and behavioral cold defenses and decreases deep body temperature. *J. Neurosci.* **32**(6), 2086-2099 (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

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 11/30/2022

#### 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