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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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

www.szabo-scandic.com

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

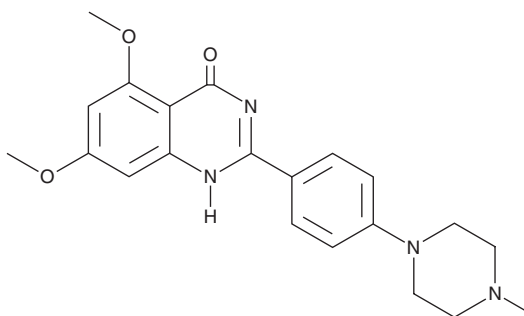
PRODUCT INFORMATION



MR2938

Item No. 39035

CAS Registry No.: 1044870-65-6
Formal Name: 5,7-dimethoxy-2-[4-(4-methyl-1-piperazinyl)]-4(3H)-quinazolinone
MF: C₂₁H₂₄N₄O₃
FW: 380.4
Purity: ≥95%
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

MR2938 is supplied as a solid. A stock solution may be made by dissolving the MR2938 in the solvent of choice, which should be purged with an inert gas. MR2938 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of MR2938 in ethanol is approximately 1 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of MR2938 can be prepared by directly dissolving the solid in aqueous buffers. MR2938 is slightly soluble in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

MR2938 is an inhibitor of acetylcholinesterase (AChE; IC₅₀ = 5.04 μM).¹ It is selective for AChE over butyrylcholinesterase (BChE; IC₅₀ = >20 μM). MR2938 inhibits nitric oxide (NO) production in RAW 264.7 cells (IC₅₀ = 3.29 μM). It reverses LPS-induced increases in NF-κB and NOD-like receptor protein 3 (NLRP3) protein levels in BV-2 microglial cells when used at a concentration of 10 μM.

Reference

1. Lv, L., Maimaitiming, M., Huang, Y., *et al.* Discovery of quinazolin-4(3H)-one derivatives as novel AChE inhibitors with anti-inflammatory activities. *Eur. J. Med. Chem.* **254**, 115346 (2023).

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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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