



# 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) 

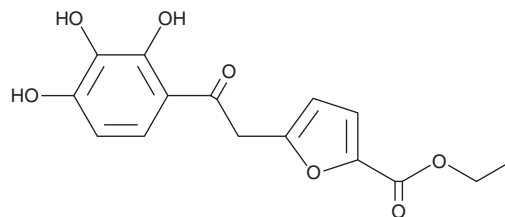
# PRODUCT INFORMATION



## MMG-11

Item No. 38787

**CAS Registry No.:** 313254-94-3  
**Formal Name:** 5-[2-oxo-2-(2,3,4-trihydroxyphenyl)ethyl]-2-furancarboxylic acid  
**MF:** C<sub>15</sub>H<sub>14</sub>O<sub>7</sub>  
**FW:** 306.3  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 216, 245, 263, 299 nm  
**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

MMG-11 is supplied as a solid. A stock solution may be made by dissolving the MMG-11 in the solvent of choice, which should be purged with an inert gas. MMG-11 is soluble in DMSO and ethanol.

### Description

MMG-11 is an antagonist of the toll-like receptor 1/2 (TLR1/2) heterodimer (IC<sub>50</sub> = 0.9 μM in HEK-Blue cells expressing the human receptors).<sup>1</sup> It is selective for TLR1/2 over the TLR2/6 heterodimer (IC<sub>50</sub> = 7.4 μM in HEK-Blue cells expressing the human receptors). MMG-11 inhibits TNF-α and IL-6 cytokine secretion induced by the bacterial lipopeptide agonist of TLR2, Pam<sub>3</sub>CKs<sub>4</sub> (Item No. 24126), in RAW 264.7 macrophages (IC<sub>50</sub>s = 3.3 and 0.2 μM, respectively). It increases serotonin transporter (SERT) and glutathione (GSH) activity, as well as decreases lactate dehydrogenase (LDH) activity and malondialdehyde (MDA) levels, in *M. avium*-infected Caco-2 cells when used at a concentration of 5 ng/ml.<sup>2</sup>

### References

1. Grabowski, M., Murgueitio, M.S., Bermudez, M., *et al.* The novel small-molecule antagonist MMG-11 preferentially inhibits TLR2/1 signaling. *Biochem. Pharmacol.* **171**, 113687 (2020).
2. Qasem, A., Naser, A.E., and Naser, S.A. Enteropathogenic infections modulate intestinal serotonin transporter (SERT) function by activating Toll-like receptor 2 (TLR-2) in Crohn's disease. *Sci. Rep.* **11(1)**, 22624 (2021).

#### 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