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

www.szabo-scandic.com

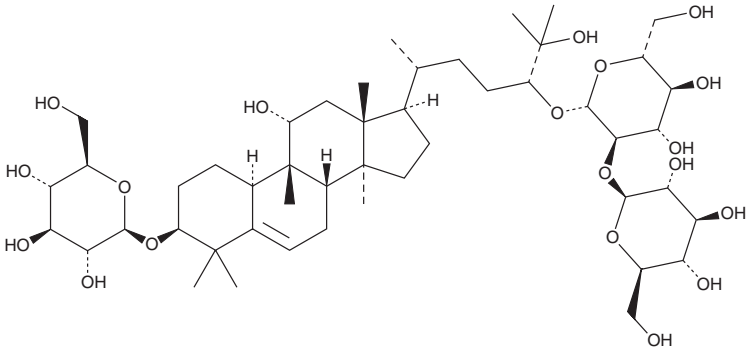
linkedin.com/company/szaboscandic

# PRODUCT INFORMATION

## Mogroside IIIE

*Item No. 39286*

| | |
|---|---|
| **CAS Registry No.:** | 88901-37-5 |
| **Formal Name:** | (3β,9β,10α,11α,24R )-3-(β-D-glucopyranosyloxy)-11,25-dihydroxy-9-methyl-19-norlanost-5-en-24-yl 2-O-β-D-glucopyranosyl-β-D-glucopyranoside |
| **Synonym:** | MGIIIE |
| **MF:** | $C_{48}H_{82}O_{19}$ |
| **FW:** | 963.2 |
| **Purity:** | ≥98% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |
| **Item Origin:** | Plant/*Siraitia grosvenorii* (Swingle) |



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

### Laboratory Procedures

Mogroside IIIE is supplied as a solid. A stock solution may be made by dissolving the mogroside IIIE in the solvent of choice, which should be purged with an inert gas. Mogroside IIIE is slightly soluble in chloroform and methanol.

### Description

Mogroside IIIE is a cucurbitane glycoside that has been found in *S. grosvenorii* and has anti-inflammatory activity.[1-2] It inhibits LPS-induced secretion of IL-1β, IL-6, and TNF-α from, as well as LPS-induced increases in toll-like receptor 4 (TLR4) levels in, RAW 264.7 macrophages when used at a concentration of 50 µM.[1] Mogroside IIIE (20 mg/kg) increases in bronchoalveolar lavage fluid (BALF) levels of IL-1β, IL-6, and TNF-α, and increases in lung tissue myeloperoxidase (MPO) activity in a mouse model of LPS-induced acute lung injury. It decreases lung fibrosis, as well as increases animal survival and reduces lung levels of matrix metalloproteinase-9 (MMP-9), in a mouse model of pulmonary fibrosis induced by the glycopeptide bleomycin (Item No. 13877) when administered at a dose of 20 mg/kg per day.[2] Formulations containing mogroside IIIE have been used as sweeteners in food products.

### References


1. Tao, L., Cao, F., Xu, G., *et al.* Mogroside IIIE attenuates LPS-induced acute lung injury in mice partly through regulation of the TLR4/MAPK/NF-κB axis via AMPK activation. *Phytother. Res.* **31(7)**, 1097-1106 (2017).
2. Tao, L., Yang, J., Cao, F., *et al.* Mogroside IIIE, a novel anti-fibrotic compound, reduces pulmonary fibrosis through toll-like receptor 4 pathways. *J. Pharmacol. Exp. Ther.* **361(2)**, 268-279 (2017).





**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