



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

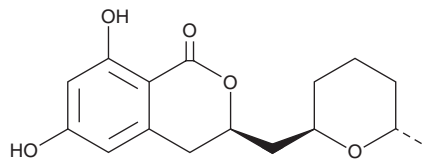
PRODUCT INFORMATION



Cladosporin

Item No. 40864

CAS Registry No.: 35818-31-6
Formal Name: (3R)-3,4-dihydro-6,8-dihydroxy-3-
[[[(2R,6S)-tetrahydro-6-methyl-2H-pyran-2-
yl]methyl]-1H-2-benzopyran-1-one
Synonym: Asperentin
MF: C₁₆H₂₀O₅
FW: 292.3
Purity: ≥70%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Bacterium/*Penicillium atrovetum*



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

Laboratory Procedures

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

Description

Cladosporin is a microbial metabolite originally isolated from *C. cladosporioides* that has diverse biological activities.¹⁻³ It selectively inhibits *P. falciparum* lysyl-tRNA ligase over human lysyl-tRNA ligase (IC₅₀s = 0.061 and >20 μM, respectively).¹ Cladosporin inhibits the replication of eight strains of *Plasmodium* with IC₅₀ values ranging from 45.4 to 89.6 nM and decreases *P. falciparum* protein synthesis by 75% at 610 nM. It is active against the bacteria *M. flavus* (MIC = 40 μg/ml) and inhibits spore germination by the plant pathogenic fungi *P. viridicatum* when used at a concentration of 5 μg/ml.² Cladosporin (30 μM) inhibits the growth of the plant pathogenic fungi *C. acutatum*, *C. fragariae*, *C. gloeosporioides*, and *P. viticola*.³

References

1. Hoepfner, D., McNamara, C.W., Lim, C.S., *et al.* Selective and specific inhibition of the *Plasmodium falciparum* lysyl-tRNA synthetase by the fungal secondary metabolite cladosporin. *Cell Host Microbe* **11**(6), 654-663 (2021).
2. Scott, P.M., Van Walbeek, W., and MacLean, W.M. Cladosporin, a new antifungal metabolite from *Cladosporium cladosporioides*. *J. Antibiot. (Tokyo)* **24**(11), 747-755 (1971).
3. Wang, X., Radwan, M.M., Taráwneh, A.H., *et al.* Antifungal activity against plant pathogens of metabolites from the endophytic fungus *Cladosporium cladosporioides*. *J. Agric. Food Chem.* **61**(19), 4551-4555 (2013).

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, 05/24/2024

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