



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) 

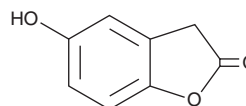
PRODUCT INFORMATION



Homogentisic Acid lactone

Item No. 41254

CAS Registry No.: 2688-48-4
Formal Name: 5-hydroxy-2(3H)-benzofuranone
Synonyms: Homogentisic Acid γ -lactone, NSC 61996
MF: C₈H₆O₃
FW: 150.1
Purity: \geq 95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: \geq 4 years
Item Origin: Synthetic



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

Laboratory Procedures

Homogentisic acid lactone is supplied as a crystalline solid. A stock solution may be made by dissolving the homogentisic acid lactone in the solvent of choice, which should be purged with an inert gas. Homogentisic acid lactone is soluble (\geq 10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

Homogentisic acid lactone is a fungal metabolite that has been found in the fungus WF5, has fungicidal activity, and is the lactonized form of homogentisic acid (Item No. 20045), an intermediate in aromatic amino acid metabolism.¹ It is active against the plant pathogenic fungus *F. graminearum*. Homogentisic acid lactone has been used as a substrate in the determination of serum paraoxonase/arylesterase 1 (PON1) activity and the chemiluminescent detection of HRP release from liposomes.^{2,3} It is an intermediate in the synthesis of LD-2, a near-infrared probe for the imaging of lipid droplets in live cells.⁴

References

1. Mousa, W.K., Schwan, A.L., and Raizada, M.N. Characterization of antifungal natural products isolated from endophytic fungi of finger millet (*Eleusine coracana*). *Molecules* **21(9)**, 1171 (2016).
2. Bełtowski, J., Wójcicka, G., and Jamroz, A. Leptin decreases plasma paraoxonase 1 (PON1) activity and induces oxidative stress: The possible novel mechanism for proatherogenic effect of chronic hyperleptinemia. *Atherosclerosis* **170(1)**, 21-29 (2003).
3. Kamidate, T., Kikuchi, N., Ishida, A., et al. Determination of peroxidase encapsulated in liposomes using homogentisic acid γ -lactone chemiluminescence. *Anal. Sci.* **21(6)**, 701-704 (2005).
4. Wu, X., Wang, X., Li, Y., et al. A near-infrared probe for specific imaging of lipid droplets in living cells. *Anal. Chem.* **94(11)**, 4881-4888 (2022).

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, 06/26/2024

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