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

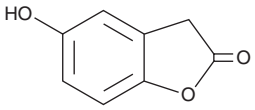
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

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:	$C_8H_6O_3$
FW:	150.1
Purity:	≥95%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥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 (≥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).

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