



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) 

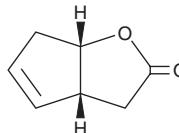
PRODUCT INFORMATION



(-)-G-Lactone

Item No. 30488

CAS Registry No.: 43119-28-4
Formal Name: 3,3aR,6,6aS-tetrahydro-2H-cyclopenta[b]furan-2-one
MF: $C_7H_8O_2$
FW: 124.1
Purity: $\geq 98\%$
Supplied as: A crystalline 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

(-)-G-Lactone is supplied as a crystalline solid. A stock solution may be made by dissolving the (-)-G-lactone in the solvent of choice, which should be purged with an inert gas. (-)-G-Lactone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of (-)-G-lactone in ethanol is approximately 15 mg/ml and approximately 30 mg/ml in DMSO and DMF.

(-)-G-Lactone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (-)-G-lactone should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. (-)-G-Lactone has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

(-)-G-lactone is a bicyclic γ -lactone prostaglandin chiral synthon and a building block.^{1,2} It is a prostaglandin chiral synthon formed from an asymmetric Baeyer-Villiger oxidation reaction.¹ (-)-G-lactone has also been used as a building block in the synthesis of HIV-1 protease inhibitors.²

References

1. Alphand, V., Archelas, A., and Furstoss, R. Microbial Transformations 16. One-step synthesis of a pivotal prostaglandin chiral synthon via a highly enantioselective microbiological Baeyer-Villiger type reaction. *Tetrahedron Lett.* **30(28)**, 3663-3664 (1989).
2. Ghosh, A.K., Chapsal, B.D., Baldrige, A., et al. Design and synthesis of potent HIV-1 protease inhibitors incorporating hexahydrofuropyranol-derived high affinity P_2 ligands: Structure-activity studies and biological evaluation. *J. Med. Chem.* **54(2)**, 622-634 (2011).

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, 11/15/2022

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