



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 Handels GmbH

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



CAY10526

Item No. 10010088

CAS Registry No.: 938069-71-7

Formal Name: 4-(benzo[b]thiophen-2-yl)-3-bromo-5-hydroxydihydrofuran-2(3H)-one

MF: $C_{12}H_7BrO_3S$

FW: 311.1

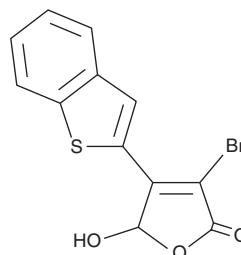
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 215, 332 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥ 2 years



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

Laboratory Procedures

CAY10526 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10526 in an organic solvent purged with an inert gas. CAY10526 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CAY10526 in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

CAY10526 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10526 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CAY10526 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Prostaglandin E_2 (PGE_2 ; Item No. 14010) is the major PG synthesized at sites of inflammation and plays an important role in different inflammatory diseases. It acts as a mediator of pain and inflammation and promotes bone destruction. The increased synthesis of PGE_2 during inflammation can be accounted for by increased expression of both cyclooxygenase-2 (COX-2) and microsomal PGE synthase-1 (mPGES-1).¹⁻³ CAY10526 is an inhibitor of PGE_2 production through the selective modulation of mPGES-1 expression. It dose-dependently inhibits PGE_2 production in lipopolysaccharide-stimulated RAW 264.7 cells with an IC_{50} value of 1.8 μM without any effect on COX-2 expression.⁴ CAY10526 also reduces the *in vitro* activities of mPGES-1, hematopoietic PGD synthase, and lipocalin-type PGD synthase when used at 300 μM .⁵

References

1. Claveau, D., Sirinyan, M., Guay, J., et al. *J. Immunol.* **170**, 4738-4744 (2003).
2. Guay, J., Bateman, K., Gordon, R., et al. *J. Biol. Chem.* **279**(23), 24866-24872 (2004).
3. Stichtenoth, D.O., Thorén, S., Bian, H., et al. *J. Immunol.* **167**, 469-474 (2001).
4. Guerrero, M.D., Aquino, M., Bruno, I., et al. *J. Med. Chem.* **50**, 2176-2184 (2007).
5. Yu, R., Xiao, L., Zhao, G., et al. *J. Pharmacol. Exp. Ther.* **339**(2), 716-725 (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, 04/01/2021

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