

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 in



PRODUCT INFORMATION



PKC_B Inhibitor

Item No. 35494

CAS Registry No.: 257879-35-9

Formal Name: 3-[1-[3-(1H-imidazol-1-yl)propyl]-1H-indol-

3-yl]-4-(phenylamino)-1H-pyrrole-2,5-dione

Synonym: Protein Kinase Cβ Inhibitor

MF: $C_{24}H_{21}N_5O_2$ FW: 411.5

≥98% **Purity:** UV/Vis.: λ_{max} : 226 nm Supplied as: A 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

PKC\$\text{\beta} inhibitor is supplied as a solid. A stock solution may be made by dissolving the PKC\$\text{\beta} inhibitor in the solvent of choice, which should be purged with an inert gas. PKCB inhibitor is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of PKCβ inhibitor in ethanol is approximately 1 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of PKCB inhibitor can be prepared by directly dissolving the solid in aqueous buffers. The solubility of PKCβ inhibitor in PBS (pH 7.2) is approximately 0.25 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

PKCβ inhibitor is an inhibitor of PKCβ1 and PKCβ2 (IC_{50} s = 21 and 5 nM, respectively). It is selective for PKCβ1 and PKCβ2 over PKC α , PKC ϵ , and PKC γ (IC $_{50}$ s = 331, 2,807, and >1,000 nM, respectively), as well as JAK1, JAK2, and tyrosine kinase 2 (TYK2; IC $_{50}$ s = 770, 3,850, and 2,310 nM, respectively), but also inhibits JAK3 (IC₅₀ = 17 nM). ^{1,2} PKC β inhibitor (14 μ M) induces apoptosis and inhibits cell cycle progression in 2F7 AIDS-related Burkitt's lymphoma cells.³

References

- 1. Tanaka, M., Sagawa, S., Hoshi, J.-I., et al. Synthesis of anilino-monoindolylmaleimides as potent and selective PKCbeta inhibitors. Bioorg. Med. Chem. Lett. 14(20), 5171-5174 (2004).
- McDonnell, M.E., Bian, H., Wrobel, J., et al. Anilino-monoindolylmaleimides as potent and selective JAK3 inhibitors. Bioorg. Med. Chem. Lett. 24(4), 1116-1121 (2014).
- 3. Saba, N.S. and Levy, L.S. Protein kinase C-beta inhibition induces apoptosis and inhibits cell cycle progression in acquired immunodeficiency syndrome-related non-Hodgkin lymphoma cells. J. Investig. Med. 60(1), 29-38 (2012).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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

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, 10/27/2022

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