

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



Prostaglandin D₂ serinol amide

Item No. 10192

CAS Registry No.: 851761-42-7

Formal Name: N-[(2-hydroxy-1-hydroxymethyl)

ethyl]-11-oxo-9a,15S-dihydroxy-

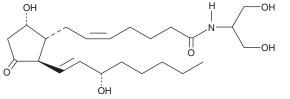
prosta-5Z,13E-dien-1-amide

Synonym: PGD₂-SA MF: $C_{23}H_{39}NO_6$ FW: 425.6 **Purity:** ≥95%

Supplied as: A solution in ethanol

-20°C Storage: Stability: ≥1 year

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



Laboratory Procedures

PGD₂-SA is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of PGD2-SA in these solvents is approximately 25 mg/ml.

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. If an organic solvent-free solution of PGD₂-SA is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of PGD₂-SA in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

2-Arachidonoyl glycerol (2-AG) exhibits cannabinoid (CB) agonist activity at the CB₁ receptor, ¹ is an important endogenous monoglyceride species,2 and is thus considered to be the natural ligand for the CB₁ receptor. 2-AG can also be sequentially metabolized by COX-2 and specific PG synthases to form PG 2-glyceryl esters.³ In activated RAW 264.7 cells, PGD₂ 2-glyceryl ester is the primary product of 2-AG metabolism in the COX pathway.³ PGD₂-SA is a stable analog of PGD₂ 2-glyceryl ester. Unlike PGD₂ 2-glyceryl ester and other fatty acyl 2-glyceryl esters, PGD_2 -SA will not isomerize to the less active primary (1-glyceryl) ester. The biological activity of PGD₂-SA has not yet been determined.

References

- 1. Sugiura, T., Kodaka, T., Kondo, S., et al. Is the cannabinoid CB₁ receptor a 2-arachidonoylglycerol receptor? Structural requirements for triggering a Ca²⁺ transient in NG108-15 cells. J. Biochem. 122(4), 890-895 (1997).
- 2. Kondo, S., Kondo, H., Nakane, S., et al. 2-Arachidonoylglycerol, an endogenous cannabinoid receptor agonist: Identification as one of the major species of monoacylglycerols in various rat tissues, and evidence for its generation through Ca²⁺ -dependent and -independent mechanisms. FEBS Lett. 429(2), 152-156 (1998).
- Kozak, K.R., Crews, B.C., Morrow, J.D., et al. Metabolism of the endocannabinoids, 2-arachidonylgycerol and anandamide, into prostaglandin, thromboxane, and prostacyclin glycerol esters and ethanolamides. J. Biol. Chem. 277(47), 44877-44885 (2002).

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, 01/26/2022

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