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

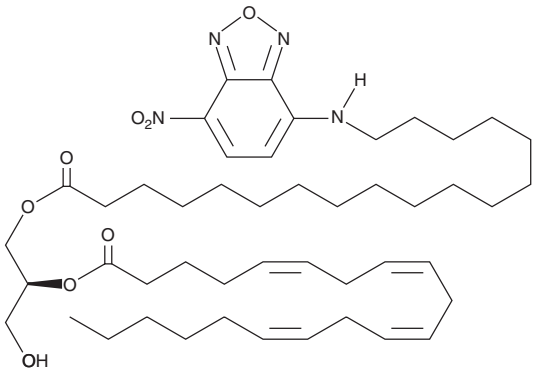
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

1-NBD-Stearoyl-2-arachidonoyl-*sn*-glycerol

Item No. 10011300



Formal Name:	N-[7-(4-nitrobenz-2-oxa-1,3-diazole)]-1-octadecanoyl-2-(5Z,8Z,11Z,14Z)-eicosatetraenoyl-*sn*-glycerol
Synonym:	NBD-SAG
MF:	$C_{47}H_{74}N_4O_8$
FW:	823.1
Purity:	≥95%
UV/Vis.:	λ_{max}: 28, 332, 465 nm
Supplied as:	A solution in ethanol
Storage:	-80°C
Stability:	≥1 year

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

Laboratory Procedures

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations.

Description

1-Stearoyl-2-arachidonoyl-*sn*-glycerol (SAG) is a diacylglycerol (DAG) that contains stearic acid in the *sn*-1 site and arachidonic acid at the *sn*-2 position of the glycerol backbone, as is commonly found in DAG from biological phospholipids. NBD-SAG has the fluorophore nitrobenzoxadiazole (NBD) attached to the ω-end of the stearoyl chain of SAG. Fluorescently tagged lipids have been used to study their interactions with proteins, their utilization by cells and liposomes, and for the development of assays for lipid metabolism.[1-5]

References

1. Wand, M., Gilbert, C.M., and Liesegang, T.J. Latanoprost and herpes simplex keratitis. *Am. J. Opthalmol* **127**, 602-604 (1999).
2. Luo, M., Jones, S.M., Peters-Golden, M., *et al*. Nuclear localization of 5-lipoxygenase as a determinant of leukotriene B_4 synthetic capacity. *Proc. Natl. Acad. Sci. USA* **100(21)**, 12165-12170 (2003).
3. Moreno, M.J., Estronca, L.M.B.B., and Vaz, W.L.C. Translocation of phospholipids and dithionite permeability in liquid-ordered and liquid-disordered membranes. *Biophys. J.* **91**, 873-881 (2006).
4. Loidl, A., Claus, R., Deigner, H.P., *et al*. High-precision fluorescence assay for sphingomyelinase activity of isolated enzymes and cell lysates. *J. Lipid Res.* **43**, 815-823 (2002).
5. Tani, M., Okino, N., Mitsutake, S., *et al*. Specific and sensitive assay for alkaline and neutral ceramidases involving C12-NBD-ceramide. *J. Biochem.* **125**, 746-749 (1999).

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