



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



VU534

Item No. 39744

CAS Registry No.: 923509-20-0

Formal Name: N-(5,7-dimethyl-2-benzothiazolyl)-
1-[(4-fluorophenyl)sulfonyl]-4-
piperidinecarboxamide

Synonyms: N-Acyl-
Phosphatidylethanolamine-
Hydrolysing Phospholipase D
Activator 534,
NAPE-PLD Activator 534

MF: C₂₁H₂₂FN₃O₃S₂

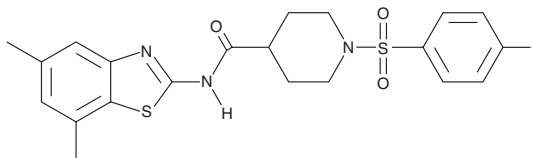
FW: 447.5

Purity: ≥98%

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

VU534 is supplied as a solid. A stock solution may be made by dissolving the VU534 in the solvent of choice, which should be purged with an inert gas. VU534 is soluble (≥10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in methanol.

Description

VU534 is an activator of N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D (NAPE-PLD), which hydrolyzes NAPEs into N-acyl ethanolamines (NAEs) and phosphatidic acid.¹ It increases NAPE-PLD activity in cell-free assays (EC₅₀s = 0.3 and 0.93 μM for the recombinant mouse and human enzymes, respectively). VU534 (20 μM) also increases NAPE-PLD activity in RAW 264.7 cells, an effect that can be blocked by the NAPE-PLD inhibitor bithionol (Item No. 21844), and in HepG2 cells (EC₅₀ = 1.5 μM). It also inhibits soluble epoxide hydrolase (sEH) with a maximal inhibition of 55% and weakly inhibits fatty acid amide hydrolase (FAAH). VU534 (10 μM) increases efferocytosis in isolated wild-type mouse bone marrow-derived macrophages (BMDMs) but not in BMDMs isolated from *Napepld*^{-/-} mice.

References

1. Zarrow, J.E., Alli-Oluwafuyi, A.M., Youwakim, C.M., *et al.* Small molecule activation of NAPE-PLD enhances efferocytosis by macrophages. *ACS Chem. Biol.* **18**(8), 1891-1904 (2023).

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, 06/24/2024

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