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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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) 

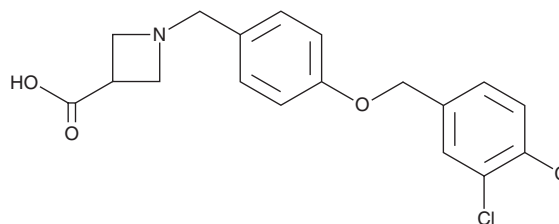
PRODUCT INFORMATION



A-971432

Item No. 25326

CAS Registry No.: 1240308-45-5
Formal Name: 1-[[4-[(3,4-dichlorophenyl)methoxy]phenyl]methyl]-3-azetidincarboxylic acid
MF: C₁₈H₁₇Cl₂NO₃
FW: 366.2
Purity: ≥98%
UV/Vis.: λ_{max}: 230 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

A-971432 is supplied as a crystalline solid. A stock solution may be made by dissolving the A-971432 in the solvent of choice, which should be purged with an inert gas. A-971432 is slightly soluble in chloroform.

Description

A-971432 is a sphingosine-1-phosphate receptor 5 (S1P₅) agonist that is selective for S1P₅ over S1P₁ and S1P₃ (IC₅₀s = 0.006, 0.362, and >10 μM, respectively).¹ It inhibits forskolin-induced cAMP production in CHO cells expressing S1P₅ (EC₅₀ = 4.1 nM). A-971432 (1 μM) increases electrical resistance of hCMEC/D3 cells in an *in vitro* blood-brain barrier model, indicating enhanced barrier integrity, and attenuates blood-brain barrier leakage in an R6/2 transgenic mouse model of Huntington's disease when administered at a dose of 0.1 mg/kg.^{1,2} A-971432 (0.1 mg/kg per day, i.p.) decreases the number of errors made in a horizontal ladder task and increases latency to fall in the rotarod test in R6/2 mice. It also increases spontaneous alternation in the t-maze in aged mice when administered at a dose of 0.1 mg/kg.¹

References

1. Hobson, A.D., Harris, C.M., van der Kam, E.L., *et al.* Discovery of A-971432, an orally bioavailable selective sphingosine-1-phosphate receptor 5 (S1P₅) agonist for the potential treatment of neurodegenerative disorders. *J. Med. Chem.* **58(23)**, 9154-9170 (2015).
2. Di Pardo, A., Castaldo, S., Amico, E., *et al.* Stimulation of S1PR₅ with A-971432, a selective agonist, preserves blood-brain barrier integrity and exerts therapeutic effect in an animal model of Huntington's disease. *Hum. Mol. Genet.* **27(14)**, 2490-2501 (2018).

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.

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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